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## **JOURNAL**

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## Stray Notes on Käbuli Persian

### L. BOGDANOV

As implied by the very title of this paper, the present sketch is a mere re-arrangement of the contents of a scrap-book kept by me during my four years' stay at Kabul, from September 1923 to November 1927. Previous to that period, my acquaintance with any natives of Afghanistan was of the slightest, and with the kind of Persian spoken in that countrynil. The first Afghan I ever met in my life was a fourneyman who worked in my garden at Tehran in 1907: I remember that he attracted my attention by his unusual headgear, a dark-blue Kabult mindil with its loose end hanging over his shoulder. which induced me to enter into conversation with the man, whose speech did not, however, differ in any way from that of other fourneymen, or did not, at that time, strike me as different. It was not until the autumn of 1920 on the occasion of the establishment of an Afghan Legation at Tehran that I came across some other Afghans, who, however, spoke the standard Persian of Tehran, most of them having already been in Persia (as I discovered later on) for some twenty years.

It was only when I arrived in Peshawar on my way to Kabul in August 1923 and met the Afghan Commercial Agent, one Jakluddin-Khān, and had a conversation with him that I began to have some misgivings with regard to the idiom I

was going to confront for the next four years.

I was not yet acquainted at that time with the interesting little book by Maj. Lorimer¹, which had only recently appeared, nor was I able to connect in my thought the materials presented in W. Ivan ow's valuable monograph on the Tabagāt of Anyārī² with the language actually spoken in our days in Afghanistan.

Neither the "Report on a Linguistic Mission" , nor the "Persian Texts from Afghanistan" , by Dr. Morgenstjerne

W. Ivanow. Tabaqat of Ansari in the old Language of Herat.
 JRAS, January and July, 1923.—
 G. Morgenstierne. Report on a Liaguistic Mission to Afghanistan. Institutes for Sammenliguende Kulturforskning. Serie C

1-2, Oslo. 1926.-

4 Idem. Persian Texts from Afghanistan. Ex Actorum Orientalium volumine VI excerptum. Oslo.—

<sup>1</sup> D. L. R. Lorimer. The Phonology of the Bakhtiari, Badakhshani and Madaglashti Dialects of Modern Persian. With Vocabularies. Royal Asiatic Society Prize Publicasion Fund, London, 1922.—
3 W. Lyanow. Taboast of Apart in the old Language of Manet.

were yet published, so that I was very much thrown on my own resources for finding out the peculiarities of the Afghan Persian, some hints of which are given by Phillott in the preface to his dictionary.

That state of things induced me to start on my arrival in Kabul the scrap-book referred to, in order to facilitate for myself the comprehension of the colloquial Persian of Afghanistan with which I had to do in my every-day work.

The term "Kabuli" adopted by me for the purposes of the present sketch was first introduced, as far as I can see, by Maj. Lorimer, who explains it as "the language of the Afghan court".2 It is, however, rather to Dr. G. Morgens. tierne that I am indebted for that term, which he always used in conversation to denote the local language, when I met him in Kabul, but who gave preference to the more cumbrous expression "Persian of Afghanistan" in the title of his abovementioned "Texts". That definition, if we do not take it too precisely, covers the term Käbull as used by me in the present sketch to denote the colloquial Persian of Afghanistan, meaning under colloquial the language in its entirety: Kabuli Persian has in fact no literature of its own, and the publications of the government (newspapers, monthlies, Nizāmnāma's)3, as well as the official letters in all departments, are composed in the same or almost the same language as is used in ordinary speech. That particular state of things gives me the possibility of dealing with these three different aspects of Kabuli Persian as one whole and of applying to it the term "colloquial" in the wider sense of the word. In what follows the words and sentences encountered in printed publications have been accordingly marked: AA. (= Amān-i Afghān) to denote newspapers in general (not necessarily always the newspaper of that name. although most of the examples bearing that mark are derived from that source); MA. (=Majmū'a-i'Askarīyya). for monthlies in general (most of the examples belonging, however, to the afore named Afghan military organ); NN. (= Nizām - nām a) 6 for the law-books published by the last Afghan government (or similar publications). Words and sentences culled from the Afghan official correspondence have been marked in the present sketch OL (=official letter). The

<sup>&</sup>lt;sup>1</sup> D. C. Phillott. Colloquial English-Persian Dictionary in the Roman character, etc., Calcutta, 1914.—

op. laud, p. 129.—
 Le, the law-books published during the reign of Amīr Amānullāh

Khan.—

4 See my Notes on the Afghan Periodical Perss, "Islamic Culture" No. 1, vol. III, p. 134 foll. (p. 9 foll. of the separate reprint).

b Ibid. p. 143 foll (p. 18 foll. sep. reprint).—
V. a footnote 3.

words and sentences derived from oral interocurse are not specially marked. The presence or the absence of the above marks do in no way imply that the word or sentence thus marked does not occur in all the other categories. Quite on the contrary, the words selected for the purposes of the present sketch are, with a few exceptions, on the average such as are used or could be used in all the three categories, that is the spoken, the written and the printed language. At any rate all the words given in our sketch are used in the spoken languages and the above-detailed marks are only intended to indicate the immediate source from which they have been derived.

The alphabet used in writing in Kabult Persian is the ordinary Persian alphabet as used in Persia itself. One letter, however, or rather sign, which does not exist in standard Persian is sometimes used in Kabult in connection with foreign n am es and foreign words felt as such. The sign in question is the 2, a letter borrowed from Hindustan and the names (for the most part European) and words in which it occurs have probably been taken integrally from some Urdi book or newspaper. We may quote as an example of words felt as foreign the word will-still written 2-(1 - 2), "a corruption of the English term "wall-socket," in which "wall" was contrased with "oolfs" by the Afghan (or Indian) electricians. That kind of spelling is, however, met with also in quite ordinary words like 2-9 (2 - 2-9) "chintz," etc.

## The Spelling

The Käbuli orthography does not present any particular deviations from the rules adopted in standard Persian. The existing peculiarities concern mostly the final  $_{\mathcal{L}}$  (with the risidar and certain names of countries, in which a regular spelling seems not to have had time to become definitely established.

- (1) Very often the final  $_{\mathcal{S}}$  of a word is supplied in K. with two dots, which is not customary in P., but is often met with in older literary documents.
- (2) The final yā (to whatever category it may belong) is spelt after a mute hā-yi havvaz, with an alij. Thus
  - yā-yi vaḥdat : K. بك كليه اي (AA.)=P. كليه اي "a word" كليه اي (AA.) " once a week";

yā-yi ishārat: K. بدرجه ای بود که (AA.) "it was to such a degree that...:"

yā-yi nisbat : شيشه اي (OL.) " of glass";

- 4
- ُ yā-yi sṭā/at (expressed in P. by a mere hamza); كانه اي فوقاني (OL.) "the upper room".
- (3) The general rule in P. with regard to an unaccentuated yd when preceding the 3rd press. sing. Press. tense of the verbum substantivum is that the yd in question changes its place and becomes a graphically integral part of that verbal form. That rule is not observed in K.
  - K. جراها است .(NN.)=P. جراها "there are punishments".
- (4) Some purely colloquial forms are spelt as they are pronounced in current speech:
  - K. متعبد استند (AA.)=P. متعبد "they are agreed [upon something]";
    - K. بایشان (AA.)=P. بایشان "to them";
- (5) Names of countries are encountered in different spellings, often on the same page of a newspaper or a letter:
  - ل. الهانيا -
    - ; "Turkey" عثماني . P = توكيه نوركيه . K.
    - " 'Italy " إيطاليه .P = إيطالها انطاليه انطالي انتااي .
  - K aulin willin = P. (milli) "[Great] Britain".
- Certain of these double spellings  $-y\bar{a} < -ya$  ( $\psi < \epsilon$ ;) are no doubt based on the peculiar pronunciation of the final short-a in K. (see below), as also the very often occurring
  - (6) & instead of b " with ":
  - K. نا كمال مدل OL. = P. نا كمال ميل " with great pleasure ".¹

#### Pronunciation

The K. pronunciation strikes one accustomed to P. as somewhat harsh. This is due to a more open than in P. pronunciation of the different shades of the phoneme a. In P. the shading of that vowel depends on the quality of the consonants entering into the same syllable and is sometimes regulated

ا I find one metanos of such confusion in 'Abdul-K ari m' a History O Contral Alas edited by th. Sch of cr with a French translation (Hi-, toire de l' Asie Contrair etc. par Mir Abdoul Kerim Boukhary, publière radultie et annotée par Charles Schefer - Paris. Ernent Leroux, 1876) textp. 58 l. 18-19: خُردُ را بعوالي صرو رسائيد بچهار هزار سوار درجاي . Schefer's tennslation (p. 135) does not convey any adequate idea of the construction of the Persian text of this peasege.

towards a certain softening rather than otherwise) even by the quality of a preceding syllable, showing a kind of synharmonising tendency. As a rule, the short a in P. might be considered as a sound very near the a-sound in the E. word "b a d", or the F. a. Whon, however, that vowel is combined in a syllable with one of the nine hard cosonnats و الم الله على ا

مى hayy not héyy; بن yax not yéx; and so forth

Last but not least, the final a (expressed through a mute-hajk horacy), beades having a sound the quality of which is regulated by the above rules is also influenced in P. by the quality of the preceding syllable which, if soft, tends to soften the final syllable as well. Thus: "you mive; sin, sin, etc. Generally speaking, however, that final a-sound never becomes more open than the a in E. "b a d".

We have thus in P, three more or less distinct shadings of the phoneme a (short):  $a_1$  (open a like the a in F.),  $a_2$  (like a in E. " b ad") and  $a_2$  (like the F. 4) for initial and medial syllables, and  $a_2 = a_2$  for the final syllable in a word.—

K., however, does not possess  $a_0$  at all, the place of which in initial and medial syllables is taken by  $a_2$  and in the final syllable by a shading of a altogether foreign to  $P^1$  which we shall cell here, for elearness' sake,  $a_1$  meaning by it that the quality of it is one degree more open, than  $a_1$ . That sound is no near the sound of the long  $a_1$ , that it is sometimes difficult to decide, whether the word ought to be written with an aif (i...) or a  $h\bar{a}$ -yi havora: (a...) at the end. That state of things is best illustrated by the different spellings of the same words as recorded above in our §§ 5 and 6 in the chapter on "s pelling". Thus

K. mēwa ( σμο ) = P. σμο (mīvé).

K. tawba ( تربه ) = P. نوبه (tawbé), and so forth.

<sup>1</sup> I am inclined to think that different currents must have been at lays to develop this sound in N. in the first instance probabily the inclinence of T on a soil already prepared by the existence of a similar a sound in P4s., and the final convolidation of that sound might have been due to the influence of H. and partly to an absence of any direct influence on the part of P.

The long a in K. is the same as in P. That is to say, it is an open a pronounced with the lips held in the shape necessary for pronouncing o. That sound, however, has in individual cases in K. the same tendency as in Western Persia towards becoming a long o, without, however, ever lapsing altogether into that sound.1

A sound peculiar to K. is the ya-yi majhul non-existent in It is a sound very near the F. é fermé (é accent a i g u ) and is generally expressed in transcription by ē. Sundry A. words containing the diphthong ay are also sometimes pronounced in K. with an & sound. I am able to quote only one example of this viz. xel ( A. خيل ) q. v., but there are certainly a few more such words in K.3

On the other hand, the ya-yi majhul in words of purely Iranian origin seems to begin to be partly discarded (probably under the ever-increasing influence of P.) or to get resolved into the congenerous diphthong. Thus along with ser for "tiger" one often hears sir (more particularly in names, like Sir-Ahmad, etc.), while such words, as umaud "hope", sufaud "white", mayz "table" may be mentioned in illustration of the disintegration of the  $\varepsilon$ . Furthermore, many words, like the just quoted šer—šir, are currently heard with either e or i : thus, for instance the verbal particle mi- is as often pronounced with its contemporary Persian sound, as with the uā-ui majhūl; so also the privative preposition is heard either as bi- or be-. Above and besides, the actual number of words pronounced with a ya-yi majhul seems to be in K. far below the number of such words as recorded in dictionaries. I therefore cannot wholly subscribe to the opinion emitted by Morgenstierne that "the old maihul vowels are preserved. e always, even so far west as in Herat". As regards his opinion about the var-i maihul which, according to him 5, is preserved as " 5 generally, but with some variations according to the locality". I can only say that I have never been able to notice that sound in Kabul, but am compelled to admit its existence in Afghanistan having heard that sound in the speech of men hailing from Ghaznī and elsewhere.

To sum up, we have in K the following vowels:

ã, a0, a1, a2; ē; ī, i; ū, u.

5 Ibid.

<sup>1.</sup> That as against I van ow, Rustie Poetry in the Dialect of Khorssan, JASB, 1939, pp. 244.

See for it, for instance, Horn, Neupersische Schriftsprache Grundriss d. Iran, Philologie IS, pp. 33-33, 35.—50 also my translation of Nocl deke's Iranian National Epic, Journ. of the K.R. Cama Crisentsl Lasticute, No. 6, Bombay 1265, pp. 163-157, and more especially note 1 on the latter page.

Cf. Horn, op. laud. p. 33.
 Report on a Linguistic Mission to Afghanistan, p. 7.

Contrary to P., where the izāļa is always an e-(or ye-after vowels)-sound, very near to the above-described sound of the yā-yi majhāl, the izāļa in K. sounds as a definite sharp i. It might be added here by way of parenthesis that the only two other instances of the occurrence of such a sound in P. known to me are the affirmative adverbs ball and the somewhat obsolete ārc ( ) "yes", a word which I have not met with in K.

There is little, that calls for notice in the pronunciation of these consonants, except certain peculiarities connected with the h-sound, and the fact that, contrary to P,  $\gamma$  ( $\xi$ ) and q ( $\xi$ ) are two different sounds.

The  $v\bar{u}v$  (,), which in P. has the pure sound of the English v, has in K. rather a tendency towards w after and between vowels.

The aspirates (h, h) have a tendency to be dropped at the beginning of the word and to fall out when occurring in the middle of a word.

The dropping of the initial aspirate does not produce any unther results except perhaps that, in the case of the Present tense forms of the verb badan, that disappearance of the unitial hā-yi hauvaz is reflected even in the spelling of these forms which we encounter in print and in writing not only as and (inst. of time), where it is not always easy to say whether the form of the ver hum substantivum is not meant, but also as will (as. of the ver hum substantivum is not meant, but the remaining forms of that verb (i.e., but not probable that the remaining forms of that verb (i.e., but not not come across any of them either in print or writing, as the cocasions on which these forms might be used are comparatively rare. Further examples of the dropping in speech though not in writing both of the initial hā-yi havaz and of the hā-yi hutīs will be found in the vocabulary.

In the middle of a word, however, a vowelless h-sound is not only apt to fall out, but its disappearance produces. as would be expected, a compensatory lengthening of the preceding vowel, so that a becomes  $\bar{a}$ , is becomes  $\bar{s}$  and a becomes  $\bar{s}$ . Neither the disappearance of the h-sound, nor the lengthening of the vowel are, however, in any way expressed in writing. Thus:—

<sup>&</sup>lt;sup>1</sup> Cf. also Lorimer, Notes on the Gabri Dislect of Modern Persian, JRAS, 1916, p. 432.

<sup>&</sup>lt;sup>2</sup> Cf. for it also I vanow, Rustic Poetry in the Dialect of Khorasan JASB, 1926, p. 243 below.

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(P. šahr) "city" is pronounced šār. أشهر (P. mihr) "love" " mēr. بر (P. muhr) "senl" " mūr.
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The same rule is to a certain extent and with slight variations still applicable in the case of the h-sound beginning a syllable in the middle of the word, that is when it is provided with a vowel. When the vowel in the preceding syllable is the same short vowel as the one connected with the h, the latter falls out and the two short vowels melt together into one long:—

When, however, the vowels in the two adjoining syllables happen to be of different quantity or quality (or both together), the h falls out and the vowel of the preceding syllable is lengthened:—

A diphthong may be reduced in such a case to a more long vowel:—

The final sonant aspirate after a falls off producing thereby a compensatory lengthening of the preceding vowel:—

A final h-sound preceded by an  $\imath$  turns the latter by falling off into an a:—

I do not feel in a position to say whether the above rule could be considered as extending to the h in the case of a preceding w. First of all, words contaming that combination are very few, and of the two I can think of, I have heard the one pronounced in both ways, that is:—

<sup>&</sup>lt;sup>1</sup> R. iou (Catalogue of the Persian Mas. in the British Musseum, vol. 1, 1811, p. 1284, in a most valuable venerous on the Girãa dialect (see for is Houtium-Schindler, House and kurdischen Wortschatze, ZDMG, XXXVIII, 1881, p. 44 under G.) registers the same phenomenon of the disappearance of the aspirate with an onsuing compensatory lengthoung, which however, contrary to K. is expressed in writing.—Geigar (Grid: d. Iranischen Philol., 1, p. 387) records summarily that pocularity as a feature common to the Central Iranian dialects.—This poculiarity seems to be, in a greater or lesser degree, common to all Iranian dialects, as also to the vulgar speech in Persian itself.

ai (P. nuh) "nine" pronounced either nu, or as in P. nuh whereas the other word as is most decidedly pronounced with the preservation of the aspirate, that is, like in P., guh. The fact that the latter word can be heard almost exclusively in the speech of the lower (i.e., illiterate) classes of the population makes it highly improbable that it could have been in any way affected by the "literary" language in the matter of pronunciation.

Another and quite peculiar kind of influence seems to be exercised in certain words by the falling out of the h-sound, namely not only on the preceding vowels, but also on the adjoining dentals, which become thereby unvoiced. Thus:-

As regards the forms of the latter verb such an unvoicing of the dental is also encountered in vulgar speech in P., 2 where the vowed dental stop has a tendency to resolve itself under the influence of the disappearing h into a dull sound in other isolated words as well, as, for instance, Meuti in vulg P. instead of . o.e. Mahdi, pr. n.

As regards other consonants, the deviations displayed in them as compared with P. are of lesser importance being more or less common to most of the Iranian dialects, and partly also met with in the ordinary P. speech of the illiterate. Those deviations are as follows :--

The vowelless b at the end of a syllable after a or  $\hat{a}$  becomes w, forming thus with the preceding vowel a diphthong aw or āw.-

This change is never recorded in spelling and the words undergoing it are spelt in the ordinary way as in P.

The closing d of a syllable containing a long vowel in the 3rd pers. sing. Past Tense of certain verbs tends to become in pronunciation t, that is to say, becomes unvoiced. Thus --

<sup>1</sup> Cf. for this also Morgenstierne. Benort on a Linguistic Mission

to Afghanistan, p. 8.

2 Not only "in other Eastern Pers dialects and in the Kashan

s not only "in other Eastern Pers dialects and in the Kashan dialects" as Morgan site rue, loc. cit.

2f. for this also the most valuable, but unfortunately extremely life, hints regarding the D 8t w 4r f dialect in Mr. D enty B r s y s. Report on the Census of Baiuchistan for 1911 quoted in LSL, vol. X, p. 482.

(P. istād) is pronounced ēstāt.

This peculiarity is no more recorded in spelling than is the above osse of the voiced labial becoming a semi-vowel, but nevertheless it seems to point to the old promuniation of the final dental as expressed in writing in older P. works and in Pahlayı,—in the former by means of the A. letter 's showing that it must have been sounded at a certain period as a voiced dental spirant, the latter through a mere t (whatever its exact pronunciation may have been at different epochs).<sup>1</sup>

This peculiarity naturally disappears whenever the fuller forms of the verb are concerned, the voiced dental being again reinstated:—

is pronounced estada.

No . būda.

The final d of the 2nd pers. Plur., both in the Pres. and in the Past Tense, is pronounced as n:

P. mīravīd) is pronounced mērawīn.

This peculiarity is, however, also extremely common in vulgar speech in P.

The sound / seems to be felt as foreign to the language and, although it is certainly used and pronounced as such by the literate, the common people are mostly simply unable to pronounce that sound, which becomes in their speech p when beginning a syllable, w when vowelless (that is closing a syllable). Thus:—

P. pr. n. Farhād) is pronounced Parhāt.

(P. Afghan) ,, ,, Awghan.

That particularity is common to Tājikī as well, and seems to be very old, to judge by the fact that in Pahlavī there is one sign only to express both f and v.

In several words we find, as against P., a kind of incre
1 We find, however, instances in the older literary language of the

final dental in the 2nd pers. Plur. of verbs being expressed by a  $\sim$  The Nassal Kauber edition (Lucaknow, 1837) of the Divan of Shamasi-Tabrist has, for instance, preserved certain such forms, e.g., on p. 202 1.0. we read:  $\sim \frac{1}{2} \omega_{\rm c} = \frac{1}{2} \omega_{\rm c} =$ 

mental -n added to the final vowel of the word without any apparent reason. Those words are:

galün, sün, qalin and yakhan (v. Vocabulary).1

The first of these words has not been met with in writing, but is very current in K. speech 2. No such final-n can be traced, however, either in the older forms of that word (Aw. garah-9, garemohva-4; Phl. garok, galok 5), nor in modern Iranian dialects ( P s t . gharra'h, 6; Kd. gerü 7; Central dialects auli 8).

sūn ( سون ) along with the usual sū ( سون ) " side " :--

i sun biva "come here!"

ū sūn bran "go there!"

has also an incremental -n, the presence of which is not warranted, as far as I can see either by the Pahl, form of the word (sok), nor by any dialectical word of the kind. 9

The two other words are T. loan-words in P., where they occur as qali or ghali and yakha respectively.

The -n in the first of them (although never occurring in P) seems to be originally T, as the dictionaries give both forms of the word, but ascribe to them slightly different meanings, gali being explained as "a costly kind of carnet "10 or "grand tapis velu et de qualité supérieure "11 and galin as "a costly carpet"; according to others, " a small carpet or rug" 16 or "petit tapis",12 No such distinction naturally exists in P., where the second, increased form does not exist at all, nor is such distinction traceable in K, where only that second form of the word is used. I have heard the Turkomans of the Caspian shores call "a carnet" kolun or kolun, which is obviously the T. pronunciation of our K. (from Tailk1?) word.

The last word yakhan, as already mentioned, is also of T. origin, being originally in T. waga (spelt more commonly 12 to.

بهلو I find a further similar instance in the case of the word (pahlū) "side" in W. Ivanow's Persian as spoken in Birjand, JASB, XXIV, 1928, which occurs with such an incremental n in No. 38 p. 283 and ın No. 87 p. 295.

<sup>2</sup> Cf., however, Lorimer, Phonology, pp. 178a and 193a. 3 v. Horn, Noupersische Schriftsprache (Grd.) p. 55. 4 Salemann, Mittelpersisch (Grd.) p. 279.

<sup>6</sup> Ibid.

<sup>6</sup> Raverty, s.v.

<sup>7</sup> Socin, Die Sprache der Kurden (Grd.) p. 257 § 21.

<sup>8</sup> Geiger, Centrale Dialokte (Grd.) p. 383 § 160. 9 Steingass, s.v gives sun "a part, a side," without any further

explanation. 10 Stoingass, s.v.

<sup>11</sup> Kieffer et Blanchi, Dictionnaire Ture-Français, s.v., who, however, give both the words with the mention, "s.p." (i.e. "substantif persan").

<sup>12</sup> Kieffer et Bianchi, s.v.

but also da, ). In P. words of T. origin the q and kh are mostly interchangeable, hence P. yakha, in which some popular etymology connecting it with yakh "ice" (in the sense

of "frozen" i. e "stiff") might be also reflected.

Parallel forms of this kind are not unknown in literary P. we have for instance zami and zamin for "earth", but there the n is fully justified, as part of the original suffix with which the word has been formed, the shorter form being without any doubt of a later formation. 8 The same relation exists also between the two P. words for "golden", where again an old adtectival suffix is accounting for the -n in zarrin, whereas the Adjective zari is, so to say, a secondary formation from the noun itself with a Modern Persian suffix -i (va-vi nisbat).

We may, therefore, maintain that the -n, at least in K. galūn, sūn and yakhan is incremental and might have its origin in some analogy with other words ending in -un and -un. As regards galin, the -n is probably originally T, but that fuller form has somehow been adopted in K. (probably through the channel of Tajiki) and has not found access into P. This latter consideration makes one think that the fuller forms

galūn, sūn, and yakhan in K. may have received that incremental -n under the influence of T. (and probably also through the medium of Tajik1).

## The Kābulī pronunciation of Arabic words

The pronunciation of A. loan-words (if we may call thus that essential and integral part of the Persian language) is regulated in P. by certain firmly established, albeit unwritten rules. All these rules chiefly tend to one and the same goal -the strict preservation of at least the outward shape of the A. words adopted in P., so that the structure of the A word should be damaged as little as possible. The final short vowels of the A. terminations, as entirely foreign to the P. language. are dropped including the tanwin's. Of the latter, however, the Acc.-termination -an when used adverbially, is often preserved in P. pronunciation, although in most cases the A. final mute alif after that termination is sounded, whereas the termination itself disappears. 4 The A. consonants and vowels are naturally pronounced according to the general rules of P. pronunciation, but their order is practically never disturbed, the vocalisation of the consonants remaining strictly the same as in the

<sup>1</sup> Ibid.

<sup>2</sup> Steingass, however, does not give it at all, but gives instead all yaqqa "the collar of a garment; use were "

2 Of. Horn, op. laud. § 23, p. 58, note 1.

4 With regard to the use of A. accusative-forms of adverbs in P.

47.88.

original A. The instances where A. words have undergone in P. some slight alterations with reference to the vocalisation are very few. Two or three of the most current of such words were the sixth which we have the sixth which we will be sixth which will be sixth which we will be sixth which we will be sixth which will be sixth which we will be sixth which will be sixth will be sixth will be sixth which will be sixth will be sixth which will be sixth which we will be sixth with the sixth will be sixth with the sixth which we will be sixth with the sixth which we will be sixth with the sixth will be sixth with the sixth will be sixth will be sixth with the sixth will be sixth with the sixth will be sixth. Which will be sixth will be sixth will be sixth wil

may be cited here: A SS (lakd\*\*) "a blow, a cuff, a kick"—in P. lakad, with an unwarranted vocalisation of the medial consonant. This alteration, however, is not felt as such and the word in its alterat form is used in P. exclusively.

A. india ('imāmat") is generally pronounced in P. 'ammāma, but such pronunciation of that word, though almost universal, is considered in P. as vulgar and as incorrect.

"funeral" (lit. "wrapping in the shroud and by the literate, owing to the natural contains of the rare work and a natural contains of the rare work and a natural contains of the rare work and a natural contains of the rare work and is natural contains and to a kind of shirt-like white garment worn in ordinary life to a kind of shirt-like white garment worn in ordinary life to a kind of shirt-like white garment worn in ordinary life contains a contains and the second words the result of a natural impulse towards alliteration or synharmonization of two closely connected words.

A. عَلَى حدة ('alā hıdat") is currently pronounced in P. nlāhıdda 2, with an undue reduplication of the final consonant.

This pronunciation of the A. expression is also felt to be cerroneous and is, in consequence, avoided by the literate classes of the population.

To sum up, the A. words in P. are, mutatis mutandis, preserved in their original shape. Neither a vowel, nor a consouant can disappear in the P. pronunciation of an A word. Neither a vowel, nor a consonant can be arbitrarily added in an A. word in P. in other words, a sakin cannot be supplanted by an unjustified rowel or vice-versă, nor can a consonant be reduplicated at will, where no such reduplication existe in the original A. word, nor can a reduplicated consonant of an A. word be arbitrarily reduced to a simple consonant, except at the end of a word.

These rules seem to be inexistent in K.

The most blatant example of the violation of these rules is the current introduction of an unnecessary vowel in A. words in the place of a suklin for the medial consonant. A superfiuous syllable is thereby created and A. monosyllable words

<sup>&</sup>lt;sup>1</sup> See for this my "Muharram in Persis", Visva-Bharati Quarterly, July 1928, p. 126.

<sup>2</sup> Written in one word : عليحدة.

become thus converted into disyllabic words. The accent of the word remains in that case nevertheless in its original position, that is on the first syllable. One or two examples will suffice, as a few more of such cases are also recorded in the annexed Vocabulary :

A. A. (P. sham') is pronounced sha-mā.

.. (P. gatl) قتل .. gá-tal.

This intercalated vowel disappears whenever the word so modified receives in its normal course an additional vowel at the end. (i.e., when it is followed by an izafa, a ya-yi vahdat,isharat,-nisbat, a vowel-confunction 1) or any word beginning with a vowel. For instance:

will be pronounced as in P. : qatl-i-'amm " universal قَدُل عالم massacre".

will be pronounced-ba-ma dakhlī nadārad بمن دخلي ندارد "it does not concern me ".

will be pronounced-ilm-u-jihil "learning and ignorance" (v. Vocabulary under the second word).

A tashdid or a vowel in A. words can disappear or be dropped in K. pronunciation. A most current K. word. in which both these irregularities occur at the same time, is the

A. اطّلام (P. ittilā'), which is pronounced in K. itlā, the correct pronunciation of the word being altogether unknown in K.

As already hinted at above in the paragraph on the disappearance of the h-sound, the purely A. ha-yi hutti (, ) is treated exactly in the same way as the havi havvaz (whether in P. or A. words), which would have been inadmissible in P. That, however, is the case not only in K., but also in G uran2

728 b-729 (Güran dialect).

<sup>1</sup> That is the , whenever it is pronounced 4. The conjunction in P. has, in fact, according to circumstances, three different pronunciations . (1) so between two sentences, or two words when it plays the rôle of a disjunctive, rather than conjunctive particle; (2) 4 between two words which form together one logical complex, that is, are synonyms, or antonyms, or generally go in couples, when the first of them ends in a consonant; (3) when the first of the two words of such a complex ends in ā or α. When the first of two such words ends in i, the & of the conjunction receives a supplementary connecting y-sound and becomes -yal. In P poetry only (2) and (3) are used. I maintain that the latter two are altogether different in origin from (1), which is the A. conjunction we stogerater universite in origin from (1), when is task a conjunction adopted in P., whereas (2) and (3) represent the old Iranian conjunction:
AP. uta, P h1. u. All this only by the way.
2 Cf. for this the most concise and valuable excursus by B i eu, in his
Catalogue of the Persian Manuscripts in the British Museum, vol. II p

and Tājikī, which latter is probably chiefly responsible for all these aberrations with regard to A. in K

The I of the A article al. is often left unassiminated before solar letters in K. promundation. This is apt to occur before a and a, certainly never before r and hardly ever before the other solar letters. Examples, however, of such promunciation as Abdul-Samuel (inst. of Abdusyamue) من احيد النبي - can be currently heard in K. speech, and not only from the illierate.

One more peculiarity in K speech as opposed to P., is the preferrital pronunciation and spelling of the A. feminine termination —atus (\$\frac{t}{2}\$) as -a, whereas the more generally adopted pronunciation and spelling for such words in P. is at Thus:

K. tarbiya ( مَن بَ ) = P. tarbiyyat ' education "

K. alāma ( sole ) = P alāmat "sign, mark".

The exceptions to this rule are somewhat striking as they concern often words that are, by exception, pronounced in P. with a instead of -at: For instance:

K. mudākhalat (مداحله ) = P. «داحله "concerning oneself with something, meddling".—

A great number of words of this kind coincide, however, in pronunciation, as far as the termination is concerned, with the forms current in P, as barakai, tijārai, daulai, zīnai, sijārai, širkai, vizīrai, etc. etc.

## Etymological and Syntactical

#### The Noun

The peculiarities with regard to nouns in K. ohiefly concern the formation of the plural, where the termination  $\iota$  -  $(-\hbar \bar{a})$  seems to be used for preference, oven in cases when P. has  $-\bar{a}\pi$  - (-1). For instance  $\iota$  -  $\iota$  -

Furthermore, the A. feminine plural-termination -āt

(ت ) is freely used for Persian words, as, for instance ;

pēsh-āmadāt (OL. پیش آمدات) = P. pēsh-āmadhā (پیش آمدات)

"happenings".

kārāt ( کارات ) = P. کرها "doings; works", v. Vocabulary.

M. Teufel, Quellenstudien zur neueren Geschichte der Chänäte, ZDMG., XXXVIII, 1884.

rasidat (صندات) = P. رسیدها - رسیدها "receipts", v. Vocabulary  $^1$ 

This combination is not altogether foreign to P., where the termination -āt for the plural in certain definite words has been firmly established to the exclusion (in most of the cases) of the usual plural formation in -hā or -ān. The more current and common instances of such words in P. are:

```
المادة (but also لمدل) "gardens" دهادت "villagos" (واز شات نواز شات "مبرة جات "مبرة جات "fruits" مبرة جات "vegetables" "مبرة جات "vegetables" "مبرة جات "vegetables" "نقله جات "jumeyspapers" "نقله جات "jumeyspapers" المادة الم
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Altogether foreign to P. is the K. treatment of A broken plurals as ordinary Persian singulars, that is the appending to them the usual Persian plural-terminations  $-\bar{a}n$  and  $-h\bar{a}$ ;

$$K.-AA$$
. نامرها تو نَسِّار (twjjārān) = P. نَسِّار ما تو نُسِّاد "merchants".  $K.-AA$ . نامرها (awlād $h$ ] $a$ ]  $= P$ . نامرها children" :  $AA$ . الله دار، (awlādān)  $b$ 

' (awlādhā-yi azīzum "my dear children" was the usual form in which the Amīr addressed the people in his speeches).

I Such formations are current in Tajiki, of Tanta, Qualicansidien art measern Geschichte der Chânate, ZDMG XXXVII, 1881, p. 248, and more especially the long footnote on the same page; also Qeiger, Barnekungen there das Tadeshid (Grdr., I. p. 408).—In Abdul Kerim Boukhan Ar halles, Ireduties, et Amocentrale pas Altra Charles, Charles,

Instances of such double plurals are very numerous, but do not excude the correct use of A broken plurals in isolated instances. This, however, may be due to quite recent influences on the part of P and probably also to an earlier influence exercised by literary Persian, as in T & jiki such A. plurals are throughout and exclusively handled as Persian singulars. 1—

Of a quite recent origin probably are the hybrid formations for different nomina agentis, like

barqīwālā ( درفي والا ) " electricien "

" woodseller " ( چوب والا ) " woodseller "

xarwālā ( غروالا ) "donkey-driver", etc., in which the H. suffix -wālā takes the place of some corresponding P. suffix.

Abstrect nouns by means of a yū-yɨ maader are currently formed in K. from the Past Partiolpie, a formation which is altogether foreign to P. These abstract nouns denote by their very nature (as originating from the Past or, we may say, Passive or Pefect-Participle) a passive or past state and seem to stand for a Passive Infinitive. Syntactically, however, such forms in K. serve mostly to express a d je chi ve a (tɨ̞z̄d̄n+ abstract noun). Examples of such expressions are given in the Vocabulary, but we may as well repeat one of them here to emphasize the point: OL. كُونُ مُولِدُ اللهُ عَلَيْهِ اللهُ عَلَيْهُ اللهُ عَلَيْهُ اللهُ عَلَيْهُ اللهُ عَلَيْهُ عَلَيْهُ اللهُ عَلَيْهُ عَلَيْهُ اللهُ عَلَيْهُ عَلْهُ عَلَيْهُ عَلِيْهُ عَلَيْهُ عَلَيْهُ عَلَيْهُ عَلَيْهُ عَلَيْهُ عَلَيْهُ عَلَ

Unclear to me is an incremental final -a which obviously appears both in nouns and adjectives merely at the whim of the speaker (or the writer, as the case may be), as for instance:

qarza ( فرضه ) along with qara ( فرضه ) "debt ; loan ":

1 Cf. Toufel op. laud 246-7; we find in Abdul-Karim's text:

جملةً أعيانان ) grandees" p. 56 1. 17 ( "grandees" أعيانان ) things" p. 102 1. 9؛ "طياها p. 100 1. 13; p. 102 تُعَوِّران : 1. 16 2. "gotions" افعالها ; ( ببعث نهودند

to the sense of a singular, but also بِنَّجُارُ p. 103 l. 15,16 we find النَّجُانُ in the sense of a singular, but also بَانِدِي دَمُ نَارِ مِنَاعِ دَارِد : 6 1.04 l. و الجريي دَمُ نَارِ مِنَاعِ دَارِد : 6 1.05 l. المُحَالِقُ اللهُ ا

. از رجالاً بالتوز خلن : p. 85 l. 2 رجالان : p. 108 L 3

2 Cf. also Morganstierne, Report p. 3.

2 Cf. also Morganstierne, Report p. 3.

2 Cf. also Vennow, Tabaqui, p. 360 and idem, Rustic Poetry in the Dialect of Khorsana, JaSay XXI, 1925-p. 251, who somewhat loosely mentions such formations as being compounted with "the suffix of the tomicine them quite correctly to be "a sort of stabeltic for the infinitive", in the first of these two papers, and as having "rasher a peair meaning", in the second monograph of the party meaning meaning the party of the party of the peair meaning the party meaning meaning meaning the party meaning the party meaning meaning meaning the party meaning mean

AA. انگلبس به لهسنان قرضه میدهد "England gives a loan to Poland".

dara ( دارة ) along with dar ( دارة ) " gibbet "

mula'ayyana منمينه instead of the P. منمين "appointed": -OL. وزير مختار منمينهٔ ژابري "appointed Minister Plenipotentiary to Japan". \*2

#### Adjectives

There is very little to be noted in the case of adjectives, beyond two or three unusual comparative degree formations, like:

Sometimes the comparative degree of an adjective is expressed by placing the word ziyādatar (زياده ني —in itself uncommon in P.) "more" before the positive degree of the adjective:

"cheaper" أرزان نو ziyādatar arzān)=P ربادة نو اروان (ciyādatar arzān)

Certain adjectives implying in themselves a difference of size, quantity (not uncommon in P. as well) or quality are used simply in the positive degree in conjunction with or to indicate comparison. For instance:

Certain adjectives formed by means of a  $y\overline{a}$ -yi nisbat from nouns ending in  $-\overline{a}$  intercalate instead of the usual connecting -y-(x), a -y-(x)

- <sup>1</sup> In this case the a is, however, probably merely the A. isahdattermination at, but the word is uncommon in P., where either simple في or ستقوامي or فرض would be used in that meaning.
- <sup>2</sup> The form is a puzzle, which is still more increased by Steingass who gives s. v. "mata'ayyana (see! with an a after the m') A station, post, command; an appointment: establishment".

  <sup>8</sup> I find only one instance of that form in Abdul Karim p. 94 l. 1.
  - I find only one instance of that form in Abdul Karim p. 94 l. l. Salemann and Shukovsky, Neupersche Grammatik, register,
- in \$22 note, a case of the comparative degree نشرتر in the Shāhnāma. 5 Cf. Morgenstierne, Report, p. 8.—Abdul-Karīm has also

text, p. 67 l. 14 (Schefer, Traduction, p. 153 l. 9-10; "[Mehommed Houssein Khan Tourch]est l'ainé des fils [d Emir Hayder]".

6 Normally one would besides have expected Maliyawi.

It is possible that these formations are based on the analogy with A.  $\pi isba's$  from nouns in  $-\overline{a}$ , like ایند. و نبری - دنیری - دنیا ; where, however, the long  $\overline{a}$  nuerely becomes resolved into a short a+b

The suffix -war ();-) obsolete in P. is of current use in K and is easily tacked on to any suitable noun or adjective, but mostly in conjunction with an additional suffix -i (yā-yi nisboti), which latter seems in that case to impart an adverbial meaning to the compound. Thus:

```
nāzuśwārī ( الخوشواري ) "as if ill";
mastwārī ( مستواري ) "as if drunk; like one drunk";
zanwārī ( زن و ابي ) "like a woman";
zānwārī ( خامو ابري ) "similar to a room";
rasmiwārī ( رسمي واري ) "semi-officially";²
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The adjective is very often placed in K., as against P., before the noun to which it belongs, e.g.:

- AA. بعدى خان رئيس سابق عدار على عدار البي مدار . Yahyakhan, the former director" (v. Vocabulary s. v. mudir);
- yak sust ādam (نک سست آدم "a weak man";
- yak sangin adam ( مكث سنگين آدم ) =P. ه " شخص نا وقار P. dignified man";
  - yak xurd bača (یک خود بچه ) ⇒ P. طفل کوچک "a small child":
- latif ādam as " مرد لطنف است ) = P. مود لطنف است 'he is a pleasant man'';
- تدم or مرد صالح است P = (رکی آدم است) or مرد صالح است ( he is a virtuous man '':
- MA. (نورک ک خدمت بررگ P. پک خدمت "a great service".

Such transposition of the adjective is not altogether toreign to P., but occurs rather seldom and only in cases where greater stress has to be laid on the quality implied by the adjective. A  $y\bar{a}_{-y}i$  vability (and not the numeral  $\infty$ ) is then necessarily used, e.g.,  $\omega_{-y}i$  where is a good man," but  $\omega_{-y}i$  he is a (very or really) good man".

<sup>&</sup>quot;family; house"، خَانُوار or خَانَهُ واز family; house".

<sup>&</sup>lt;sup>2</sup> For examples of words formed with the suffix -wār, v., for instance, Horn, Neupersische Sprache (Grdr, d. iran Phil. I) p. 191.

#### Numerals

Some of the numerals in K. differ in pronunciation from P. These are:

Three numerals differ from P. altogether in their formation (and spelling):

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" (دوست ) <sup>3</sup>=P. دوست (sisad) " two hundred" و هو هد ) <sup>3</sup>=P. سنده هد (sisad) " three hundred" هما الماه عد ) =P. سنده هد (five hundred" 5.
```

A plural formation  $sadh\bar{a}$  (  $\omega \omega_0$ ) "hundreds" uncommon in P. is frequently to be met with in K

AA. مدها فسم اختلافات = P. مدها فسم اختلافات 'lundred kinds of disagreements''.

The conjunction -+(,) between the figure of the tens and the figure of the units is mostly omitted in writing in K. Thus:

is not "thirty times five", but "thirty five".

This omission of the conjunction in the middle of a numeral containing a fractional is even more equivocal

<sup>1</sup> And the compound numerals of the two latter, —apdā, aždā (გაგგ - გაგგ ).

<sup>\*</sup>In Tajlid that would seem to be the current form: A bd ul. K arīm has it throughout his text, namely :  $p_1 = 1, i = p_2$  . Li :  $p_1 > 3$  . Li :  $p_2 > 3$  . Li :  $p_3 > 3$  .

<sup>3</sup> The 8 sound here is probably produced by the presence of the final mute h.

<sup>4 &#</sup>x27;Abdul Karîm has thoughout مسلم صد 4 'Abdul Karîm has thoughout مسلم صد 4 'L 5; p. 45 L 12; p. 62 L 12; p. 63 L 4; p. 77 L 21; p. 78 L 6; p. 97 ll. 18, 22 Md. Amîn has again the literary form: مستمد Teu fel, o. o., p. 361 L 7

<sup>5</sup> Here 'Abdul-Karim has, however, the literary form Dist. p. 58 1.9.

The same, asemingly, in Tājiki: 'Abdul Karīm has the same numeral in the same shape p. 103 l. 11, and hee \_\_\_\_\_ for "twenty four" p. 41. 20 Md. Amīn omits the conjunction also in other cases, but replaces the same by a to-ma as recorded by Teufel, o. p. 245.

and does not mean "two half-rupees", as it would seem on the face of it, but "2} rupees"; '

(sic) يكنيم (does not mean "half a year", but "a year and a half";

. " is not " 100 " (" two half hundreds "), but " 250 ".

AA سنة ندم صلبوس does not mean "three half-millions", but "three millions and a half";

In certain cases numerals are apt to take an  $iq\bar{a}/a$ . Thus  $d\bar{u}$ -yi awwala\* (  $(c_{2})$ ) "the two first ones" :

sē-yi digar (سهٔ دیگر ) "the three others".

The H. lak \( \sigma \) is, contrary to P., used in K. to denote one hundred thousand".

The word kurür ( کوود ), which means in P "half a million' (500.000) is used in K. in the sense attributed to it in India, that is for "ten millions" ("a crore").

#### Pronouns

Some alight deviations from the P. forms of the Personal Pronouns are shown in K. The pronoun of the first pers. Sing. drops generally in current speech the final -a, and is pronounced with the harels a-sound peculiar to K, \* so near to the long ā, that it is mostly impossible to distinguish that form from the first pers plur, which is often used in popular speech instead of the singular form by modesty or by courtesy, so to say. As we encounter it, however, sometimes (though very seldom) in writing spelts as c/mai. there cannot be the slightest doubt as to the existence of such a form to denote the singular pronoun.

The pronoun of the first pers. plur. is mostly used in K. with a plural termination in the form mryss ( , , , , , , , , ), both in speech and in written documents. This form seems to have altogether superseded the shorter form, which is, however, often used in vulgar politie speech, along with ma by a single

<sup>1</sup> Cf. also my "Afghan Weights and Measures", JASB, XXIV, 1928

p. 494, note 4. "
Thus also 'Abdul - Karlm in a passage altogether misunderstood by 8 chelor, text p. 95 !. 6-8; المنا تحد مناك كالله و بازكاند و خطان و آتسو و ابله و دري ديكرمت ه
تربيست مثل كالله و بازكاند و خطان و آتسو و ابله و دري ديكرمت ه

<sup>\*</sup> Registered by us above in the chapter on pronunciation as a. .

'C. for this for instance, my "Notes on the Afghan Periodical Press" "Islania Culture" (Hyderabad, Decon) No 1 vol. III, 1929, p. 161 (or p. 26 of the separate reprint). CI. also the above quoted remarks on D5 hu # ir in L8 II, vol. X, 462.

speaker when referring to himself. To indicate plurality the word murdum "people" is sometimes added to the shorter form, the expression mā mardum (مامود) taking then the place of the more current māyān. 2

Exactly the same can be said with regard to the 2nd. pers. Plur where the form śumāyān (مثاني) is predominant, alternating in isolated cases with śumā mardum (شماعريم) 3.

The 3rd pers. Plur of the personal pronoun is &&ân (روالي), \* as against P. أحداث . One encounters sometimes also a corrupted form and (لويا) [4.4. OL.], which outwardly seems to be a contamination of the colloquial P. prounceation of the plural form of the demonstrative pronoun. (اما pronounced what] and of the 3rd pers. Sing. of the personal pronoun (إا-ك) but which is, in fact, the plural of the demonstrative pronoun R, with an uncomental-a of the same kind as in sūn, galān (v s p. 11) and furnādadus (s infra, 31).

The pronominal affixes are of a somewhat less exectasive use than in P. Their position in the sentence semuto be looser than in P., which produces in the 1st person by contamination with the personal termination of the verb, very strange forms, the real meaning of which is no more realized by the natives 8.

This looseness of connection between the pronominal affixes and the words to which they belong finds in K. a graphical expression as well, those affixes being mostly written

<sup>&</sup>lt;sup>1</sup> Uf. Morgenstierne, Report, p. 8. also Teufel, Quellenstudion, p. 247.
<sup>2</sup> The state of things in Tājikī is exactly the same. In fact, the

form معالم almone exclusively used in X b du I- K ar im 's text, where we encounter it: p. 2 1 5. p. 6 il. 16, 17, 19; p. 7 il. 13, 17, 19; p. 11 1. J. 17; p. 16 il. 18 bys. p. 21 li. 7, 6, 12; p. 72 il. 19; p. 26 il. 19 p. 60 il. 17, 19; p. 60 il. 19, 72 il. 19; p. 60 il. 7, p. 60 il. 10, 23; p. 60 il. 5; p. 71 il. 11, 12 The shorter form se consens only ones or twice, and then to denote the let pers. Sing, Md. A min has a shorter form se consens only ones or twice, and then to 3 monte of T. 375 il. 9. The same in Taylor M. Amin has a shorter form se consens the same in Taylor M. Amin has a shorter form se consens the same in Taylor M. Amin has a shorter form se consens the same in Taylor M. Amin has a shorter form se consens the same in Taylor M. Amin has a shorter form se consens the same in Taylor M. Amin has a shorter form se consens the same sens the

<sup>1. 12;</sup> p 16 11 14, 16, p. 30 1 3; p. 33 1 23; p. 34 1. 1 ba. p. 61 1. 23; p. 52 1. 1; p. 66 1 16; p. 62 1. 3. Md. Amin T. 373 II. 1, 3. The latter has, however, once المراجعة as against K.: T. 358 1, 12 المراجعة المراج

<sup>4</sup> In Gilakialso similarly @55m, of. Geignr, Die Kaspischen Dialekte, (Grder d. iran, Phil, 1) p. 390.
5 Ct. Vocabulary under taslim.

as separate words in cases where in P. they would be written conjointly with the word to which they belong. Thus:

"[may] your Day of Independence [be] "بدو استقلال کان مبارك" (in the heading of a printed programme of the Paglman Mila). Words ending in a vowel often take before the pronounnal affixes a consecting -y- (-y-) and it is a question, whether that - - - not meant to express the status constructus (ignal, e.g., but the man to express the status constructus (ignal, e.g., but the milation).

The possessive relation is expressed not by the izāfa as in P, but by the preposition ar(j) of "sometimes pleomastically preceded by the word anal ( $J_b$ ) "property", so current in P, which takes then an unnecessary  $iz\overline{a}/a$ :  $iz\overline{a}b$  "in book" is

The reflexive pronouns are the same as in P. rad ( $(\pm c)$ ) and  $ri\hat{e}$  ( $ri\hat{e}$ ), the latter occurring in its pronominal sense only in writing (newspapers), whereas in current speech is used only in its adjectival meaning of "relative". Az rud ( $(\pm c)$ ) means "own" and is currently used in reply to the challenge of night watchmen, police, etc., in the same sense as the E. "(Friend"—

In current speech the reflexive pronoun raid is often used (and even missed) in the sense of "but" for even without any particular sense which could be attributed to it<sup>3</sup>), where in P. the relative & would be expected. In this case, the final d of the word is generally dropped "Thus:

tu xu raftī! "but you went (there)!"
jūr xu astī? "but you are well?"

An uncommon in P. plural-formation  $xudh\bar{u}$  ( فردها  $\dot{u}$  ). where one would expect in P. خردشان "themselves", often occurs in K  $^{b}$ 

The demonstrative pronouns are: in, i ( $\iota^{i,j}$ ) "that". The forms  $\iota^{i,j}$  and  $\iota^{i,j}$  are used in writing, but i and i prevail in current speech. The plurals

سةً دبكو - دوى اولش "Cf. above under "Numerals "

<sup>2</sup> Cf. also 'Abdul-Karim, text, p. 90 l. 10: معتبدی از خود حاکم به dul-Karim, text, p. 90 l. 10: حداکم تود خود حاکم به 'établit comme gouverneur d'Aral un personnage possédent «a confisnce" (Schefer, Traduction, p. 1991 11-12) —

configure" (Schefer, Traduction, p. 1921 11-12) —

8 Cf. 1v and w, Tabaque, p. 33.—

4 Cf. also LSI, vol x, p. 452, where the same dropping of the final -d

is regorded for Dehwarf.—

<sup>5</sup> Cf. also Teufel, Quellenstudien, p. 247.—

inā and śnā seem to me to be formed rather from i and û with an incremental-n-, than from the correct interary forms. hamē[n] (عبول ) به إن بين المعالمة ( عبول ) به المعالمة المعالمة

The A. demonstrative pronoun (as takes mostly the place of its Iranian equivalent in documents of the official kind:

مونر کار هذا "this motor car" (on a ticket for free admission to the Möla of Paghman):

"this passport", and so forth. بسا بورث عذا

The interrogative pronouns are the same ki (45) and bi (45) as in P.

The rolative particle ki ( & s ) is used in the same way as in P.

The indefinite pronouns are the substantival kas (الحر) "somebody; anybody" and the adjectival kadām (راحة) "somebody; anybody" and the adjectival kadām (راحة) "some" the latter most extensively and sometimes pleonastically and, so to say, unaccessarily used in that sense in K. whereas the same word is only an interrogative pronoun in P. meaning "which? "Thus

kisi nabūt ( کسی سود ) " there was nobody " ;

ar (هر) takes sometimes also the place of ić (هر) as well, and is used with a negation For instance:

AA. و در عر مرنع از بدل شقفت مادرانهٔ خریش خردداری نکرده اند "and on no occasion has sine (the Queen) abstained from displaying her motherly kindness (lit: "and on every occasion, she did not abstain", etc.)

Other in definite pronouns are the same as in P .-

<sup>&</sup>lt;sup>1</sup> Cf. also for a similar expression 'Abdul-harim, text, p. 64

#### The Verb

The 1st pers. Sing. ends in -um,1 as against P. -am One is sometimes fortunate enough to come across such pronunciation expressed even in writing:

In the 3rd pers. Sing, the final -d is generally dropped by the illiterate and in current speech, which latter, however, is the case in P. as well. Thus:

mēšava, mīšava = P ميشود (pronounced mīšavad and, in current speech, mise) "it is possible; it is all right".--2

In the 2nd pers. Plur, the final -d of the termination has a tendency towards becoming -n, which tendency is, however. common also to P. current speech A good example of it is found in Specimen II of Badakhshi LSI , vol. X p 530:

kamar basta-kunën "gird up [your] loins", along with the ordinary form kuned (probably a misprint for kuned) a few lines above in the same Specimen 11.3

The 3rd pers Plur, generally drops the final -d of the termination, again a peculiarity common to P. as well, where the sole distinction in current speech between the Infin and the 3rd pers. Plur. Past Tense lies in the accentuation (raftin "to go"- ráftan "they went").-

The Future Tense is formed as in P. by means of the auxiliary verb zastan (خواستري ) "to wish; to will", but the treatment of the component parts (i.e. of the verb conjugated and of the auxiliary verb) is essentially different from the standards firmly established and common both to literary Persian and to P.

No single definite rule covering the whole of the Future conjugation in K. can be established. For the 1st pers. Sing. and the 1st pers. Plur. the auxiliary verb is used in the 3rd pers. Sing. Pres Tense and the verb conjugated takes the personal forms of the Past Tense. Thus the Future Tense will be:

he was never without the company of the "ميشة بي صحبت علما نبود learned" (lit. "he always was not", etc.) It is unnecessary to add that such turns of phrase are entirely foreign to and inadmissible in P.—

1 Cf. also Ivanow Rustic Poetry, p. 252.—

<sup>2</sup> Cf. asso Lorimer, Phonology p. 140 § 16.—

2 Cf. asso Lorimer, Phonology gives throughout forms in -in for the 2nd pers. Plur, in his paradigms (pp. 161-166), but does not otherwise point out this peculiarity .-

خواهم . ۲ = ( خواهد خواستم ) lst pors Plur zāhad zāṣtīm ( خواهد خواست خواست

e.g. OL. نخواهد حواسيم (nazāhad zāstīm) 'we won't demand''.

For the 1st pers. Sing., however, a combination of the 3rd pers. Sing of the auxiliary verb with the first pers Subjunctive Mood of the verb conjugated is also used <sup>1</sup>

The 3rd pers. Sing. uses the same form of the auxiliary verb, but the verb conjugated is taken in its Subjunctive Mood Thus, from the verb سون نه "to be" the Future Tense will be: 3rd pers. Sing. rāhad bāsad أمراه ين إلى المواجعة والمواجعة والمواجعة والمواجعة والمواجعة المواجعة ال

home".

The 2nd pers. Plur. is formed by prefixing the personal form of the auxiliary verb to the Infinitive of the verb conjugated. Thus:

خواهند رفت . "=( خواهند ردين ) 2nd pers. Plur. تقلّمة draftan ( خواهند ردين ) e.g. sabāh waqit xāhīd raftan ( صعام وقت حواهند ردين )

The 2nd. pers. Sing. and the 3rd pers. Plur. are also formed in the same way, i.e.:

2nd pers. Sing. zāhī raftan (خواهی دفنی) = P. خواهی دفنی

If we sum up what has been said here, we arrive at the following paradigm of the Future Tense in K.: 2

<sup>1</sup> Cf. also Morgenstierne, Report, p. 8.-

<sup>2</sup> I take here deliberately only such formations as have been

#### Singular

1st pers. zāhad raftum zāhad bugīrum 2nd , zāhī raftan 3rd .. zāhad raft zāhad bāšad

## Piural

lst pers xāhad xāstīm

2nd , xāhīd raļtan

غواهند گداشته 3rd ,, xāhan raftan

These heterogeneous and heteroclite formations are so singular, that one is irresistibly compelled to ask the question: where do these formations come from?

I feel tempted to suggest that these formations must be of a quite recent origin, with the exception of those of them which contain the I n I n i i i ve of the verb conjugated in its full form and that, up to recent themse, K. was probably unacquainted with the use of any compound Future Tessen it to form current in P. The Present Tense or Subjunctive Mood forms did probably serve to express the idea of futurity as well, for which we have sufficient proof in P., when these forms are freely used along with compound formations to denote a near or an indeterminate future. Most probably in older K. a kind of compound Future formation consisting of the personal forms of the auxiliary verb in the Present Tense such forms in the 2nd pers. Sing, and the 2nd and 3rd pers Flur of our paradigm.

We cannot account for formations such as the lat pers. Sing. and Plur. of our paradigm (in the first column) unless we told that the 3rd pers. Sing. (rāhad raft) was more or less recently imported from outside (Persia). If the Persians themselves feel the different origin of the two externally coinciding forms of the Infinitivus apocopatus and the 3rd pers. Sing. Past Tense,—the Afghans certainly do not.

I maintain, therefore, that formations like zāhad raftum, zāhad zāfstum are K neologisms based on a total misunderstanding of the real value of the apocopated form of the Infinitive in P. compound Future formations, where the second link of the compound was mistaken by the Afghans for a 3rd pers. Sing. Past Tense, and endeavours were made by them in consequence to construct forms for the remaining persons on the same pattern. The forms so coined were adopted

recorded by me in Kabul as actually heard in current speech or seen in writing. This accounts for the different verbs used in the paradigm — 

¹ The forms given in transcription are those heard by me in speech the one in original characters has been seen in writing.—

and became very current, but must have struck the natives themselves as being somewhat queer, which resulted in further gropings towards some more satisfactory combinations. Hence the forms recorded in the second column of our paradigm.

Another phenomenon peculiar to K. and unknown in P. is the extremely ourrent habit of splitting verbs, in the sense of fabricasing new compound verbs out of the most ordinary simple verbs in general use. These new composite verb in P., where one of the auxiliary verbs added to a noun or adjective contributes to the latter the necessary verbal sense. In K. formations under discussion the place of such noun or adjective is taken, however, by the Past Participle, the Present Participle, or the Imperative of an already existing and otherwise currently used verb, the meaning of which is integrally transferred to such a new composite formation A few examples will suffice:

istāda kardan ( وا استاده الله عرون) 'to stop'', درو استاده الله 'to stop'' (e.g. istāda ku ( استاده کل 'stop'' (when telling a coachman, etc., to stop).

." to ask ". بروسدن P برسان کردن ) to ask ". " to give birth ": زاد کودن ) P درسان کردن " to give birth ".

dasta budan (داشته بودن) = P. داشتن "to have, to possess" ,

י am unable to tease any compound Future formations in Ab du L Kar Jim's text, and the solistry instance of a compound Future that I find in Md. Am i n; י בולט בי בי בליניים ולבי בי בליניים לבי בליניים לביניים לבי בליניים לביניים לב

e.g. OL. اطلاع ندارند .P. اطلاعی نداشند hey have no information".

The examples of such composite formations could be multiplied, as there are practically no limits to this forcible

disintegration of common P. verbs.

The utter unnecessariness of such a procedure and the clumsiness of the forms thus obtained are such as to call for an inquiry into their possible origin Yet, I am unable to suggest any plausible hypothesis, except that they must be comparatively recent and have possibly some into existence under some foreign influence, formed, it may be, on the analogy of similar expressions in some non-Iranian language 2.

The negation is placed in K., as against P, before the verbal prepositions. Thus:

nabrāmada (نه بر آمده ) ≔P. بيرون نيامده "he has not come out";

ma nawar-dāštum (من نه رداشتم) = P. من ور نداشتم 'I did not take (it)''.

The particle mi-is also placed in K. before the verbal prepositions. Thus:

AA. مبراند (sic mibrayad) = P مبراند " comes out " ;

AA. ارسی میبردارد (az bayn mībardārad)=P. ارسی میبردارد "takes away: makes lose; destroys".

The particle  $m\bar{\imath}$ -precedes in K., as against P., the negation. Thus:

minabrāyad (مى نه بر آند )=P. سرون نيباند "he won't

I sannot trace any such expressions, in 'Abdul-Karīm's text and I find only one instance of such a split verb in Md. Amin نواخله منكروي "he was playing (the tune of....)", with a pleonastic بن المناه منكروي way wi istimara, instand of

E The expression band kardan and basta kardan remand one persistently of the H. Uμ ω, and it is very difficult to decide, as in most instances where we find analogous expressions in K. and in H., whether the H. expression is the original or whether it is rather formed on the analogy of the K. construction.—In my opinion, the later is mostly the case.—These split-verb formations could, on the other hand, have been influenced or introduced by Central Asan Turkz.—

We find, however, such a sequence in older literary Persian: کلی المبنی که صفیرش نرنی می نخورد آب النج Ct. for instance Minüölhri (A. de Biberstein-Kazimirski, Menoutchehri, poète persan du

In composite Tenses the negation in K. is tacked on to the auxiliary verb Thus, for instance:

he has not محصل بكردة بود .P = بحصل كردة نبرد "he has not

The Past Participle is very largely used in K., sometimes pleonastically, e g :

bel garıfta biyār ( سل بيار .)=P. سل بيار "bring a spade", where one is inclined to think of the H  $i\bar{e}$   $\bar{a}o$ . But, I repeat thagain, it is difficult to say which way the influence has been

displayed.—
Impersonal sentences expressed in P. simply by means of the 3rd pers Plur. Pres. Tense, are mostly rendered in K by the Past Participle of the verb with the 3rd pers

Sing of the auxiliary verb شدن, e.g : , شدن e.g : , o.g : , o.d : " ن منگربند .P. منگربند (it is said ".

'it is expected " منتظر أن هستند كه .P = انتظار كردة منشود كه .hat. .''

Such split-verb (or otherwise) Passive formations are apt to govern in K, the Accusative case, e.g.:

AA. عسافر کسی را منگوبند P = مسافر کسی را تعقه منشود a traveller is called a person, who....'

No clear distinction is made in K. between the A. Participle and the A. verbal abstract noun (maskar). This limitation becomes most conspicuous in the construction of composite verbs, like

mumkin dāra ( ممکن دارد ) [Ameer in a speech]=P. امکان دارد or ممکن است 'it is possible'':

rizā šudan (رصا شدن )=P. اص شدن "to agree":

to conquer " نصرف نمودن .= P. نصرف شدن " to conquer to occupy " .

AA فتشون عرائسه زول را تصرف شدند "the French troops have occupied Z";

--- " to clean " باگ كودن .-- P. صفا كودن ) to clean "

Very peculiar are certain forms of the Past Participle in -ak instead of the ordinary-a-termination, current, however,

11 dme siècle, etc., Paris 1886, text p. 14.)—of. also Ivanow, Tabaqat p. 346-7: مرح زد کرد الد only, it would seem, in the speech of Hazāras. For instance:

āwurdak = P. sayof - Jet "he brought".

Abstract nouns derived from the Past Participle, which are certainly closely connected with the forms mentioned here \*, seem also to be currently used among the Harftas\*.

Causative verbs are far more current in K. than in P. Two groups of such verbs deserve, however, a special attention. The first of these groups we might class as unnecessary formations, like the above discussed split-verbs, that is, new secondary formations to which the meaning of the original verb is integrally attributed. For instance:

" to break " شكستس . P= شكستاند ) sikastandun " :

î āyīna-rā īt šikastānd ( اين آئينه را او شکستاند ) it is he who has broken this window-pane":

firistāndan (فوسقاندی P. فرسقادی 'to send, to dispatch, to forward'':

i xatt-rā ba wazīr sā'ib mīfiristānim (اس خط را بوزير we shall forward this letter to the Minister".—

As regards this latter verb, for all we know, the -n- in it might be merely an euphonical incremental consonant. Or else, the verb with the period from Pereis (the current K. variant of it firstifidan being unmistakably the yold) was somehow felt as being, owing to the present of the current K. variant of it firstifidan being unmistakably the yold) was somehow felt as being, owing to the present of the current K. variant of it firstifidan to the current period of the current former in the current period of the current former in the current popular speech in K. and firstifiands is used nowadays in current popular speech in K. and firstifiands in official correspondence, nowspapers, etc. The latter form seems to be also extremely common (if not exclusively used) in T&1 kit.

<sup>1</sup> My attention was first drawn to these forms by Madame A. Fou oher, who accompanied in 1933-1925 her hisband to Afghanistan on his scribsological mission and had many opportunities of company across Hazéras in their own country. I have since often heard such forms from Hazéras reading in Kabul.

<sup>2</sup> v. ante p. 17. 3 Cf. Morgenstierne, Report, p. 8.—

In 'Abdul-Karim's text we find: منفوستانی p. 33 l. 18; p. 35 l. 1;
 p. 81 l. 6; مینوستانی p. 102 l. 12; نیپوستانید (2nd pors. Plur.) p. 26 l. 8;

The second group are causative verbs derived directly from A. abstract nouns (masdars), e.g.:

gabūlānīdan ( فنولا ندين "to make accept": î-ra-ba-ū mīqabūlānīm "we will make him accept it";¹

i-ra-ba-ū miqabūlansm "we will make him accept to ; "
qawlānīdan (فولاددو)" (to promise; to guarantee"
(v Vocabulary) <sup>2</sup>.

The vorb [āmānidan (موالدين) to make understand", although not used in P., is not derived, like the preceding one, directly from an A. noun, but is a regular causative to the simple مومدس (in K. pronounced [āmādan), very current both in K. and in P.

For other causatives not used in P. v. Vocabulary under dänānīdan, guzastāndan, pazīrāndan, etc.

Two peculiar composite verbs tustim studen and distract studen, the real syntactical meaning of which is lost as far as the Afghans themselves are concerned, deserve a more special attention. The first of these verbs is used in K. in two different meanings. The first of these verbs is used in K. in two different meanings. The first of these verbs is used in K. in two different meanings. The first of these verbs is used in K. in two different meanings. The first of these meanings (v. Yocabulary) is based on the above discussed confusion in K. of A. Participles and verbal nouns (mazdara) and does not present any special interest bowond that current K. irregularity.

The second meaning of that verb, which would be understood in P as "to be handed over, to be transmitted" is singularly enough not a Passive, but an Active and transitive one
in K., where it is taken to signify "to receive". The expression
'I have received" or "received by me" in receipts (for salaries,
others sums of money, letters, etc.) is rendered in K. by

— (Lastin sudam). Moreover, the expression take
in accountancy ledgers, or printed receipt-and acknowledgment-

p. 101 1 و متاليد و p. 101 1 و برسالنيد (d.) p. 34 1.23 و برسالنيد (d.) p. 34 1.23 و برسالنيد (p. 101 1 5.13; p. 63 1. 5 —The instances of that verb in Md. Amin's text are enumerated by Teufel in his above-quoted monograph on p. 251.—

<sup>1.</sup> The verb in question most angularly remnada one of the law avariat norm snapshifstan in Palavi, the Iraman aquivalent of which is padirufan "to accept", and more especially of the form in Va. 8, 94 modelmingsyl quoted by 8 a le ma no in his Middle-Persian Grammat (Hrdr. d. tran Phil. 1, p. 315) as a Pasawe Present. The absence in X. of any unpile verb of his root and the oxistence in current use in K. of an Iraman equivalent (v. Voetbolary), simbolecas me to work the properties of the race osses of a Buzy a risk moved finding its law in the properties of the race osses of a Buzy a risk may after the work had been quital Persian where the Aranic predix ma, after the work had been quital Persian where the Aranic predix ma, after the work had been quital prediction with the prediction of the predint of the prediction of the prediction of the prediction of the p

<sup>&</sup>lt;sup>2</sup> This verb seems to be formed on the analogy of the preceding and has also no simple form.—

forms (of the Post Office, the Telegraph Office, etc.), in the headings of the signature column in peon books, etc., clearly shows that the verb taslim sudan is considered in K, to be an Active transitive verb, not a Passive formation as in P.-Such a way of using and understanding that compound verb is based on a misinterpretation of an old construction with the pronominal affix appended to the auxiliary verb instead of the substantival part of the compound. As has been already pointed out, the connection between the pronominal affix and the word to which that affix logically belongs is somewhat loose in K. (as most certainly also it was in Pahlavi). In the particular expression we are discussing the pronominal affix was probably tacked on to the auxiliary verb in order to avoid the repetition of the same consonant in the termination of the word تسليم = تسليم شد is equal to نسليم شده = السليم المارة is equal to on, and probably long ago, lost from view, which in consequence gave rise to such unwarranted expressions, as the above -. امضاء تسليم شوندة quoted

The verb danistan (دانستري) "to know" is currently used III K. also in the meaning "to understand" (along with famidan, v. Vocabulary). It is in this particular meaning that it has given rise to a form entirely analogous to the above-discussed taslim śudan : danista śudam ( دانسته شدم ) does certainly not mean "I became known", but, being a 3rd pers. Sing. Past Tense with the pronominal affix of the first pers. tacked on ato the very end of the compound, it is equal to دانسته ام شده = it became known to me". A further proof (if any is required) of the correctness of my interpretation of the above two strange expressions is found in the polite phrase often recurring in K. conversation: danista-yi suma suda basa (دانسنهٔ شما شدة باشد) " you might have understood . ." or " I hope, you understand ...", where the place of the pronominal affix is taken by a personal pronoun, revealing thereby the underlying construction of the preceding expression.

The verb twoonsident, tanoānistan, tānetan (رَانَسَيْن) "to be able", constructed in P. gen er all y with the Subjunctive and only in impersonal sentences with the Infinitive us a pocopatus, governs in K. throughout the ampler old form of the apocopated infinitive, a glimpse of which we had when discussing the formation of the compound Future. E.g.: guita namificus)ānum (المنافية المنافية المناف

"can become"; تواند شد . P. تواند شده

heir mentality could " ذهلت آنها را اصلاح کرده میتران be improved ":

cannot (i.e., must not) be mocked استبرا شدة بينواند

at"; إنسانيدة ترانستم ( waa I able to انسانيدة المانيدة المانيدة ترانستم ) "waa I able to make myself understood " or " . . . to make you understand "!"

A further peculiarity of the verb \( faw \) anistan in K. is that it can be used with abstract nouns or adjectives unaccompanied by any auxiliary verb (which occasionally also occurs in P.) Eg.:

inbūt mī([aw]ūnīm (اثنات مندوانيم الله P. (اثنات مندوانيم ثانت نهائيم P. ((نات مندوانيم ثانت نهائيم can prove (it)

can prove (۱۵) "; xaridārī na mīt[aw]ānum (خريداري نينوانم )=P (خريداري نينوانم )=P ( خريداري نينوانم ) السام نياس

AA. مست درازي سيترانند " they cannot lay hold on . . ";

AA. "آنا مطبع مشاندد" "can you make (them) obey ?":

OL. مخابرات تلکرانی مبترانند they can communicate by telegraph";

OI. افدام منترانند "they can take (the necessary) steps"; OL. بابد همراهي و معاونت نتراند "he must be able to help

An analogous construction can also be noticed with the verb majbūr būdan (مجبور يودي ) "to be compelled"; for instance:

and assist".

<sup>1</sup> Lori mer Phonology, records for Badakhshani and Madaglashti, however, only the construction with the Infinitive in its full form.—

As regards Tajik, we find in 'A bd ai-K a f Im's text mostly constructions with the full form of the Infinitive. namely to effect of the property of the prop

AA. شوکت قیمت آن را مجدور است "the Company has to pay its value".

—, where we should expect, in conformity with the P. syntax some verb to be added to the noun تبت in order to warrant the verbal meaning attributed to it, say مردارد or augusta or or " سردارد or to discharge".—

The verb māndan (""šie) "to remain" is used in K. almost exclusively in the transitive meaning "to leave", a meaning entirely foreign to P. but encountered in isolated instances, along with its usual meaning, in older literary Persian <sup>1</sup> One example will suffice:

māndum da sar- i mayz (مانديم در سر مدن ) = P. گذاشتم رو منز ) "I put or left (it) on the table". \*

In connection with the word  $n\bar{a}m$  "name" the verb  $m\bar{a}ndan$  is also used in the transitive sense in preference to the equally current verbs  $quz\bar{a}\dot{s}tan$  and  $n(th)\bar{a}dan$ , e.g.:

alā atrat-i šahīd Ustur nām māndan ( على حضرت شهيد ) His Majesty the Martyr (i.e., Amir Ḥabībullāh-

<sup>1</sup> I am able to quote here an example from Sa 'di's Būstān, where that verb is used both in the transitive and the intransitive sense, namely in the story of the "life) of Sommath":

که کو زندلا اش مانی آن بی هغو <u>نخسواهد نسوا زندگانی دگسو</u> "since, if you leave him alive, etc" (Lehore lithographed edition of 1917, p. 420) and four lines earlier in the story (p. 419) the same verb is used in its unual meaning:

که دانستم از زنده آن برهمین بهاند کند سمي در خون صن --'' booause I know that, if that Brahman remained ''

A. de Bi beratain Kazimiraki, in the preface to his edition of the already clied diviso of MindSthri, quotes (n. 64 note) from the Taritkhi Mau'ildi of Bay haq i the sentence and which he translates "en qual état a tu la is éa le Prince des croyants" and remarks on the "emploi divisor de comme vorbe soit, emploi, du reste, en usage à cette époque" (i e., in the V century A.H.  $\equiv$ XI century A.D. (a laos i bit. q. 100, note 2.—

The only instance of such a use of ماندن in Md. Amin's text, T 368, i. 12 has already been quoted by me for another purpose su pra p. 28 note.

Khan) gave it (the building of the Foreign Office) the name Stor".1-

In connection with the noun kar "work" mandan is used intransitively in the expression

az kār māndan (ار کار ماندس P. عاندس) not to work: to be without work: not to be admitted to work".--

The Past Participle manda (ماندة) is used in the sense of "tired", where in P. the word aims would be rather applied : manda nabāsi "I hope, you are not tired".-This meaning of the verb mandan "to be tired" goes as far back as the pre-Muhammadan period : Phl. mandakih "weariness"

The conjugation of mandan presents the peculiarity that in the Imperative and Subjunctive Monds the particle bicoalesces with the body of the verb thrusting out at the same time the initial m-, thus:

ban, banum corresponds to P. مانم - نمان . This transmutation might have proceeded along one of two lines either the initial m- of the stem was first assimilated in rapid speech with the b- of the particle, which further lost its vowel and then disappeared altogether, which is, in my opinion, less probable; or else, there first occurred an elision of the vowel in the particle 2, resulting in an initial bm-, which by metathesis became mb- and was further worn off to a mere b. latter hypothesis seems to me more plausible 3

We should thus have the following two possible schemes for the course of that transformation :--

either bimān > bibān > b'bān > bān bimān > b'mān > mbān > bān.

The verb raftan ( رفقن ) "to go" in its personal forms is currently used in K. with any Past Participle to indicate continuity of the action expressed by the latter. That turn of phrase could be expressed in English by the verb "to go on" with a Present Participle and corresponds to the P. expressions constructed with the personal forms of the verb داشتن accompanied by the corresponding forms of the verb conjugated, with the particle mi- prefixed to the latter. The following examples will make this clear :---

هى دارم معضورم .P = ( هى خوردة منروم ) P. هي دارم معضورم "I am eating and eating";

ألمش على نثار خان ماندة بود : Cf. also in 'Abdul-Karim's text p. 42 l. 10.-

As in b'rāmadan, v. supra, p 29 and Vocabulary s. v.-3 (f. Lorimer, Phonology, p. 144 § 27 (a) and (b).-

AA. زياد ميشد P زياد ميرفت "went on increasing":

These examples could be multiplied indefinitely, as this mode of expression is extremely common, both in speech and in writing.—

The conjugation of the verb rates offers few peculiarities bound those common to the K. verb in general. The last pers. Sing. Pres. Tense is used mostly in its contracted form, the other persons, barring, as said, the specific K. deviations, (i.e., the dropping of the -d in the 3rd pers Sing. and the 3rd pers. Plur., by an exceptlar:

lst pers. Sing. mērum 1.

2nd ,, ,, [mi=|mērawi = 3rd ,, ,, [mi=]mērawa

1st ,, Plur. [ mi = ] mērawīm 2nd ,, ,, [ mī = ] mērawīn

3rd . " [mi=] mērawan

The Past Tense offers no peculiarities beyond those already discussed

In the Imperative Mood the prefix bi- is not synhar-

In the Imperative Mood the prefix bi- is not synharmonized with the stem as in P.:

2nd pers Sing. biraw. 2nd ,, Plur. birawin.

### tur. orawin

# The Adverb

There is little to be noted about the adverb in K beyond the immoderate use of A. Accusatives for adverbial locutions where in P. the adjective is used in its indeterminate form, with the A. termination dropped, to express the same meaning.

<sup>&</sup>lt;sup>1</sup> I have not heard this form with a yā-yi ma'rāj <sup>2</sup> This and the remaining forms are currently heard either with mior with mā-....

On the other hand, sometimes when we find in P. an A Accusative with an adverbual meaning, the same word is apt to be used in K in its indeterminate form, e.g.:

A. Passive Participles in the Accusative are sometimes used in an adverbial sense, when in P. one would expect a masdar either in the Accusative or, better, with some preposition, e.g.:

A hybrid expression consisting of an unnecessary A. Accusative followed by a Persian relative pronoun is:

The negative adverb seems to have been always the same nau. as we have to-day in K. s

<sup>1</sup> See my "Notes on the Alghan Periodical Press", Islamic Culture (Hyderabad, Deccan) vol III 1, 1929, p. 147 ff. (or separate reprint p. 22 ff)

الفاق اللجين : also found in 'Abdul-Karim's text, p. 102 l, 6 خوتند را ... بآب الداختة مقتول ساخت •

S We find in a poem attributed to Abū Sa'ld b. Abī i Khayr (Zhukovski's edition of the Asrāru-t-tawhīd, p. 3701 12)

<sup>&</sup>quot;no, no such a pleasant wind never blows from Khutan." — Kumples of this form of the negation and be eastly found in literature. as the persent moment, J and quote only one more instance of this reduplicated nay, viz., in the Divisa of this reduplicated nay, viz., in the Divisa of Sa man if A bridge (الواقعية المناس المنا

The negative particle with verbs was na-( ... ) " not ".

The negative particle with nouns and adjectives was  $n\bar{a}\cdot$  ( b ) " un-".

A great deal of confusion with regard to the correct use of these different words seems to have prevailed already in very early times, so that the above differentiation has rather a theoretical than a practical value. As far back as Pahlavi only two forms have been recorded; one form no (written ideogrammatically la) for the three first forms of our scheme, and the prohibitive ma (written hal). So that the differentiation into our four forms must have first originated in Islamic times to lead merely to further confusion. As far as P. is concerned, the difficulty seems to have been definitely solved by: (1) discarding altogether the prohibitive particle ma-(.... ), the place of which is henceforward taken by the ordinary negative particle ( ... ); (2) by preserving in connection with nouns and adjectives the particle na- (U); (3) by blending into one word in two forms the negative adverb nau in such a (ني) and the negative particle na- (من or .. \_i) in such a way that, whatever the shading of the negation, it is always expressed by na- (ai or .. .. ), except in the case when it precedes a verb beginning with a vowel, in which case the form nav- ( . . . . ) reasserts itself.

We thus have:

The fact that all the three nowadays existing forms of the negative are used in K. as prac-verbal particles, as against only two in P., is based on the so current contusion in K. of the harsh short -a in terminations with the ordinary long -\( \frac{3}{4}, a fact which has already been pointed out in the course of this sketch. This confusion between these two sounds, and, in

consequence, between the negative prac-verbal and prac-ad-

jectival particles, seems to be very old indeed <sup>1</sup>.

Other instances of peculiarly K. adverbs and adverbial expressions will be found in the Vocabulary.

## The Preposition

The often occurring confusion between the preposition ba ( $\omega$ ) and  $b\bar{a}$  ( $\omega$ ) has already been pointed out and exemplified in the chapter on Spelling.—

The preposition dar ( $\iota_{i}$ ) mostly loses its final r in current speech and becomes  $da^{i}$ : da sar-i mays  $m\bar{a}ndum$  "I put (it) on the table"; da  $d\bar{u}k\bar{c}n$   $\delta ika$  "he is sitting in (his) shop".—

The vowel in the preposition bar ( $_{\checkmark}$ ) undergoes an elision before verbs beginning with a long  $\bar{a}$ -, as has been pointed out in the chapter on Verbs.

The preposition az (%) is sometimes used instead of the preposition  $\omega$  of P. .

sometimes used pleonastically after the preposition badun (ωςω) P "without", K "bosides", with which it is then connected by means of an izāla:

besides him ".3 " ( بدوريا از او ) " besides him

It is also currently used in a similar construction with barāy-i ( [c]+ ) "for":

and, in general, it is often used pleonastically in connection with an 12515

<sup>8.7.</sup> need hardly mention here that Loramer. Phonology, p. 10.5 36 as wrong in thinking that "prehaps it as mere discortion of bal" (i), but his supposition (to id.) that this form might have engagested on the analogy with the Pashus ablative-positive particle da, although more plausible, has also to be rejected, as this lightened form cocurs likewes in varieties of Persian speech, which happen to be notated the some of Pashut influences: cf. for instance I va n o w, Ruster Poetry, 256; dt. Persian speech, 255.

<sup>\*</sup> For the posuliar use of the preposition badun ( ندون ) "without" in the meaning of " except", see Vocabulary s.v.-

AA. تمبير از (the explanation of it ":

"his" مال او .P = ( مال از او ) his " ;

." his room " اوطاق او .P = ( خانة ار او ) his room ".

az is further used in definitions of time:

AA ار چند سال است P. چند سال قبل "several years ago";

nn. از اوّل صاة ببعد P. شروع از اوّل صاة "from the lat of the month".

For the use of the compound adjective  $amr\bar{a}[h]$  (\*)\*\* as a preposition v. Vocabulary.—

Another synonym of  $b\bar{a}$  (U) "with" is the extremely current kat-1 (36) "with":

kat i û or kat-i az û " with him ", etc. v. Vocabulary.-

The P. preposition والمراسكة (pop for (براسكة) is not used in K., where its place is taken by the more vulgar baxs ( مغشف ) or baxsa ( مغشف ), v. Vocabulary.—

Prepositions are occasionally dropped (both in speech and in writing):

AA. که از آن باخبر باشیم P= که از آن خبر باشیم \* so that we should be aware of it \*;

OL. ار فوار معلوم =P. ار فوار معلوم "according to what is known; as is known".—

For the peculiar use of  $m\bar{a}\text{-}bayn$  ( a) "between" in the sense of "in, inside of "see Vocabulary.—

#### The Conjunction

The disappearance in certain cases of the conjunction u(g) "and" has already been mentioned in the chapter on Numerals.—

The causal conjunction in K. is  $\delta anki$  ( $\delta \omega_p + \infty$ ), as against  $\rho = 0$  because", and is used extensively and without any real necessity. I should like to think that it is under T. influence that this form has established itself in K. and further found its way into H.—

#### Interjections and exclamations

Along with the ordinary interjection  $\sigma y$  ( $\iota_{\omega}$ ) used in hailing, a form  $\bar{\sigma}w$  ( $\iota_{\omega}$ ) is also current. As it never occurs in writing, it is difficult to say, whether it is a parallel form for the P.  $\iota_{\omega}$ ! (i.e., whether it ought to be spelt  $\iota$ ), or a synonym of the P.  $\iota_{\omega}$ ! The latter, however, is a postposition, whereas the K. word stands he for re the noun, which it puts in the Vocative, or, in absence of such a noun, begins the sentence. Thus:

aw bacca = P agai "boy!"

" ! (come (quick " ببا هاي . come (quick "

A peculiar K exclamation of approval is halā halā halā halā [xayr bīnā] (ملا علا علا خلا بدر سني) (well done'" or "that is right"—2

#### Polite phrases and terms of abuse

The few polite expressions in K. speech neither cover the usual polite formule in P., nor do they coincide with these. It would seem that the evolution of such stereotyped phrases went on in Afghanistan quite independently of the P speech and developed on its own lines Many of the polite P expressions, like منافع "نوام والله المنافع المنافع "to please". والمنافع للمنافع المنافع المنافع

<sup>1</sup> Steingass, s. v., has a word to which he transcribes as has and explains as "used when charging an enemy". It might be the same word as the K. interjection here discussed.—

The interjection % (or, in its lightened (orm, ala) occurs (postically) also in P.: one hears it often in Persia in the refrains of certain dervish-angs (mostly ascribed to 8 h a ma-i Tabrizi) like: مرمو (húy-hoy h/la-hā hā hā) or

coming, by calling)"، شونات شدن "to seek honour (by calling), to call " (when speaking about oneself) عشم "(lit. "eye", i.e. "as precious as my own eyes") "I deem it a duty!" نؤه به "(your) slave", and many others, are not only entirely missing, but there is even no trace of any adequate equivalent for them in K.

The terms of affirmation and confirmation are extremely sober in K., and some of them look very much like mere translations from E.:

" yes, Sır! " ( بلى صاحب ) 1 " yes, Sır! "

bisyār xūb sāib ( سيار خرب صاحب ) " vory well, Sir!"

" correct ! " درست - صعبع . P. أسنار درست " correct ! "

" that's fine! " مارخى الله . P. ( مسمار اعلى ) bisyār ālā

bisyar mērbānī ( مرهمت شما زباد . =P. ) مرهمت شما زباد or مرهمت شما زباد ''very kind (of you)!" (lit"much kindness").

The word  $a\bar{a}ib$  is generally used in K. both for "Sir" and "Mr.", where in P the term if is applied: \*.

the Minister of " آقای وراو امور خارجه . P وزیر صاحب خارجنه \* "Foreign Affairs";

the Minister "آقای وزیر مختار .P وزیر صاحب مختار Plenipotentiary" —

The word said is placed after the name or the title of the person addressed (or mentioned) and, as can be seen from these examples, in titles of a composite nature, after the first link of such a compound. Should that word ever bused in that sense in P., it could naturally never be placed in the middle of a compound thus rending ssunder a logical complex.—

Other formulæ of assent, besides the above cited, are:

dilat (دلت ) = P. ميلةلي "as you like" or "please yourself" (lit. "thy heart", i.e. "as thy heart wisheth!") —

azār daļa ( مزار دنمه ) " a thousand times! " (i.e. " with pleasure") is the nearest equivalent of the P. عشم.—

A polite term of denial is:

<sup>1</sup> It is even used when addressing the King.—

In P. ساهب means "master; owner", and is less used as a form of address.—

عسطة mēdāna (خدا منداند = P. عرض كنم "1 do'nt know" (lit. "God knows").--

A formula of acceptance of a proposal is:

agar mērbānī bāsa ( اكُّو مَهِوناني باشد ) =P. الأو موحمت بفومالند ) or با الغات بفومالند or "'if you are so kind ''.—

The nearest attempt at constructing a polite sentence on the pattern of the formulæ current in P, is the seldom heard phrase of civil invitation to come in .

"please, نفوصالبد. ) = P. نکلیف توارا کنده ) = P. بفرصالبد. ("please, take the trouble" (lit. "make the trouble palatable").—More often, however, the nivitation to step in is expressed in one word by the Imperative of the verb

--" 'come' ( سآئند ) bi'āyīn

The simplest phrase of greeting (after the Islamic formula of salutation has been exchanged) is:

tabi'at \* عالغان خوبست . P . غلبهت حوب '' how do you do f '' (lit. "health good f").---

The answer to that query is:

" thank (God)!" الحدد لله P. على " thank (God)!"

Generally, however,—more especially after a parting or when greeting a new arrival—more elaborate formulæ are used, like:

xībastī zūrastī bazayrustī xūb zūrastī xūb baxayrastī jūr xu astī xayr—xu astī mānda nabākī salāmat bāšī tabī at rūbas

خرب هستی خور هستی نخبر هستی خرب جور عستی خوب نخبر عستی جور خود فستی خبر خود هستی ماندهٔ نباشی سلامت ناشی طبیعت خوبست ؟

i.e. lit.: "art thou well? art thou fit? art thou all right? art thou quite fit? art thou quite all right? thou lookest fit! thou lookest all right? (I hope) thou art not tired? good cheer to thee! Is thy health well?"—

This string of questions is repeated in a rapid recitative. In reply, the same gibble gabble may be poured forth all

over again. or the mere word šúkur (منكر), already recorded may be used —

An intimate friend might be greeted on arrival by the

formula:

qadamutān mubārak tahmatān rawian sānayitān dirā: ....

( Your feet (be) و تدميل مبارك چشبتل روشن شانهٔ تل درار )

<sup>1</sup> For the meaning of taklif ( تكليف) see Vocabulary.-

<sup>2</sup> For the meaning of tabifut v. Vocabulary. --

lucky! your eyes (be) bright! your shoulders (lit "shoulder-blade") (be) broad (lit. "long")! . . . . . ! " 1.

A jocular form of greeting of a rather coarse nature between very intimate friends may be sometimes heard:

bi-pāndī bi-larakī kamarat bi-kkanad tu kir starī (در شوی) "Mayest thou swell! mayest thou burst! may thy loins break! mayest thou become blind!" This antiphrastical sentence is probably meant to avert the evil eye or something of the kind.

The formula of taking leave is:

At parting either the Islamic formula of salutation is pronounced (which is not customary in P.), or else the guest, who is going, says:

ba-amān-i zudā ( امان خدا ) or fi amāni-llāh ( و مي امان الله ) "to the protection, of God (I entrust thee)!", to which the master of the house replies:

ba-xudā supurdum (بطحدا سپردم) "I entrust (thee) to God!"—

I have heard, however, the sequence of these two formulæ reversed.

The forms of congratulation differ little from those current in P. (i.e. אמיני ביקור ביקור

A somewhat more complex sentence is used for congratulation on the ' $\bar{l}du$ -l- $a_2h\bar{a}$  ("The Feast of Sacrifice") <sup>2</sup> commonly called by the Afghans ' $\bar{l}d$  <sup>2</sup> "The Feast":

The rest of the formula is unprintable —
 On the 10th of Zū-l-Ḥipa.—Called by the Persians 'Id-: qurbān.—

<sup>3</sup> In P. the term 'Id ( عبد ) is the abbreviation of "The Festival of the New Year", and is not applied to other festivals without some special qualificative, unless, of course, when loosely used in the general sense of "holiday" —

<sup>4</sup> With the omission of the conjunction, v. supra, p. 41.

(and) champions of the faith!" The reply to it is the usual salāmat ( سلامت ) "cheer!" as above.—

The terms of abuse in K. are so coarse that I am able to cite only very few of them. One thing of general importance must be, however, mentioned, namely, that what has been said with regard to the above discussed polite phrases holds good also for the terms of invective current in K.: they do not coincide with the similar terms in use among Persians, and many of the P. terms of that kind have no exact equivalents in K. and vice-versā. Thus, for instance, the expression we can be compared to the contract of the contract

padar-πλīλī (with a transposition of the syllables of the second link of the compound, instead of [ωλ, μλ, pronounced often in rapid speech in the heat of an altercation as pālāt, whatever its meaning. This expression, on the other hand, is entirely foreign to P. 3

Nor does one hear in K. the so current P. terms of invective دراصانی - جاکش - مادر نصعه در در تخده در . The P. نزواسانی از از از ناسرد از از ناسرد از از ناسرد از از ناسرد (it it 'unnmanly'') appears in K. in the softened form of a diminutive:

nā mardak t

The P "ניק" "contented cuckold" appears in K. in the slightly mutilated form danas.

"Where in P the verds ربدن "a a care" is used in invective in combination with the words "بونس "heard", ""heard", "من "grave", etc., K. uses the composite verb guk kardan, and the current expression (heard almost exclusively from the lips of the fair sex) is:

<sup>1</sup> That expression was obviously coined by the troops of Nädir-Shäh during the latter's Indian campaign (1737-39), when the Persians met with the from their point of view—horrid proceeding of burning the corpses of the dead.—

<sup>?</sup> It might mean "one cursed by his own father", or (and more probably) "one whose father be accursed",

<sup>4</sup> v. Vocabulary, s v.

da danat guh mēkunum (در دهنت که مبکنم) 1.

Passing under silence other K. terms of abuse, I may in conclusion say a few words about the more current polite turns of phrase as used in writing (OL)

These also are widely different from the P. forms used in correspondence and do not in any way cover the latter.

A letter in K either begins ex a brupto, or (in unofficial and semi-official instances) it is introduced by some kind of summary address like: الد وست عربرم "My dear friend!" "

The beginning of an official letter is:

نا كمال احترام باستحضار . مبرساند .P= شرف أطلاءهي ° دارد --- 'has the honour to inform ''

The concluding phrase of a letter in K is always very brief:

I abstain here for considerations of space from citing any possible P equivalents for these sentences, but may mention that these abrupt phrases are essentially un-Persian and seem to have been constructed on the pattern of the sober E. terminations of letters It may be also noted that such phrases are only found in Afghain official letters addressed to foreigners The usual formula of concluding an official letter anongst the Afghain themselves is the word has "only" 1.

The P. formulæ for the termination of letters: ربانة زهبت 'fto say) more (would be to) trouble", and معين تحديد 'fto say) more (would be to) trouble", and he will be to the more elaborate concluding phrases, seem to be entirely unknown in K.

<sup>1</sup> The verb γ<sub>2</sub>γ<sup>2</sup> ought probably to be disconnected here from the nous and not considered as auxiliars, but rather as an undependent solve verb, meaning "to put", so that the whole sentence might be freely translated as ""If 11 it by mouth with occurance!" <sup>2</sup> Possibly a recent importation from €. The obligatory P. formule (not to speak of their proper gradation, so very much observed in

<sup>(</sup>not to speak of their proper gradation, so very much observed in Persia): - معدفت گردم - قرمانت شوم - روحي قداك - قدايت شوم

<sup>-</sup>are altogether unknown in K.--

<sup>4</sup> Looks to me suspiciously like a recent borrowing from E.—.
Obviously a translation of the E "only", as used on cheques, receipts, etc., after sums mentioned therein.

The Vocabulary presented here contains a number of population of the either of Afghanistan. Taking into consideration that, in most cases, in the instance of local varieties of speech (sometimes locally called dislets and confusied with the latter) the recorded texts and the resulting grammatical and lexicographical materials are derived from the speech of the illiterate (peasants, nomads, etc.) class of the population,—I wish to emphasize the point that the contents of the Vocabulary which follows and of the Introductory notes of the present sketch are aiming at recording the speech of the literate part of the Afghan population, the "court language of Kabul", to which Maj. Lori mer refers in his "Phonology"; and has practically nothing to do with the language of the Illiterate. In other words, I am dealing here with the official language of Afghanistan, not with some residued of some out-of-the-way village or nomad-tribe.

The language (or local speech) in question differs so much from standard Persana, 'that I cannot in any way share the point of view of Sir George A. Grierson who says, when peaking of Bad ak his his ni, that 'as Persian is so well known, it is unnecessary to give a detailed account of the language used in them", (i.o., the specimens of Badakhshafi given by him), mentioning further that "the Persian spoken in Alghanistan closely resembles Badakhsh." Were that view correct, the prosent article would have remained unwritten.' As it is, however, if flatter myself with the thought of that green the total content of the reader some entirely new materials in the domain of Persan dialectology

For conviseness aske I have applied to the subject of this sketch the term K 6 bull and I have overlywhere referred to the Tajikt of Bukhara as Tajikt. If we take, however, into consideration that the term Tajikt has a general definite meaning of all kinds of varieties of Persian spoken by non-Persians, it might perhaps have been more correct to refer to the Persian of Afghanistan as "the Tajikt of Kabull", as opposed to or compared with the "Tajikt of Bukhara",

<sup>1</sup> V Introduction, p 2.

<sup>&</sup>lt;sup>2</sup> p 129 — <sup>3</sup> I nean by Standard Persian (abbr. everywhere P.) the present-day colloquial language of Tehran —

Linguistic Survey of India, vol. X. p. 527 .--

Of. for instance, also B row no. "Ayear amonges the Persuan; p. 112:
"A monges the vasions were a certain number of Afghan..... On these occasions I used often to remain in the room during the conversation, also of which, old both of which, old hollough it uses conducted in Person, one readly unitabligable to ms., for the Afghans epeak in a manner and with an occanify guider possible to themselve."

which Geiger's appropriately calls "sine locale Entartung der Schriftsprache". A similar 'locally decayed' variety of Persian is also the language of Afghanistan. More than that, I maintain that these two languages are seemitally and originally identical and that any differentiation of these two languages must have occurred at a quite recent epoch. We may take it that, roughly speaking up to the rise of the Barakzay dynasty (1836) there has never been any actual isolation of Afghanistan from the rest of the vast tract of land between Samarqand and Bukhara, on one side, and Kashmir and the Punjab, on the other (including, besides Afghanistan, Khiva, Khoqand, Kashghar, Khorasan and Seistan), and that the Persian language used throughout the whole expanse of that area must have been more or less uniform or less uniform or less uniform.

If we judge by the texts of the histories of Muhamamad Amin Bukhati\* and 'Abdul Karim Bukhārii,\* who wrote respectively in the second half of the XVIIIth and at the beginning of the XIXth century, we can see that the language of these two texts is essentially the same as the present-day language of Afghanistan,\* making allowance for the miluences that have been at play during the last hundred years.

The actual isolation of Afghanistan, as has been said, begins with the second quarter of the XIX ocentury, and may take that henceforward and up to 1919 the possible influence of literary Persian and P. on the language used in Afghanistan is extremely weakened, the influence of the Persian of Turkeetan (Tā j 1k1) must have stopped from that moment altogether, and of all outside influences perhaps only that of Hindustani could have been at play, although certainly considerably weakened, as compared with the preceding

<sup>1</sup> Grdr. d. 1ran. Phil., vol I, p. 407 —

<sup>&</sup>lt;sup>2</sup> Teufel, o.c. The work of Mularomad Amin is the individual history of the reign of 'Ubaydulläh Khan II of the Janid dynasty (1751-1763)

Schefer, o.c. The History of 'Abdul Karim comprises events which took place in Afghanistan. Bukhare, Khiva, and Khoqand for the period from 1740 to 1818 A.D.

the period from 1746 to 1818 A.D.

A few days before my departure from Kabul early m November 1927, Hz Highness Sayyid 'Ālim Khan, the ex-Amīr of Bukhārs, honoured me by leading mo for perusal a manuscript of the satobiography entitled jida (Lish 195a), just completed by hm at that moment. As the manuscript was to be ent a few days later to Paris for translation and publication, and I myself was externelly busy with getting ready for my journey, was unable to avail myself tuly of that unique opportunity of comparing my notes on Kabull with the language of the manuscript in question. A correct permeal of its contents showed ms, however, the correctness of my conjecture of the alone relationship axising between Ks and the lateriaties, the language of the Ms. was to all purposes the same as that of K. books and documents that had come to my notice.

centuries. So that, for the last century, Afghanistan, as regards its language, was to all purposes left to its own resources. During that last century, however, the standard colloquial of Persia completed a considerable evolution cultimitating in its final present day's expression, which is known in Afghanistan and in the far-away Caspian provinces of Persia, as Qājārī from the dvnasty of that name.

As already mentioned \$\frac{1}{2}\$ there is no strict distinction in As a laready mentioned \$\frac{1}{2}\$ there is no strict distinction in Assistant between the colloquial and the literary language, as there is no literature to the colloquial than the strict solid strict the colloquial colloquial than the peak of the colloquial (standard) Perian giving always first the P equivalent and then the English meaning of the K word. The P. equivalents introduced here have all been carefully checked by me with when the colloquial than the colloquial colloquial colloquial than the colloquial coll

I hope, therefore, that any possible mistake in that

direction has thus been very much minimized.

The Vocabulary contains about eight hundred and fifty k words  $^{\circ}$  which are given in transcription in Latin characters. To express  $_{\subset}$  is used  $^{\circ}$ , for  $^{\circ}$  is used  $^{\circ}$ , for  $^{\circ}$  is indeed then  $_{\subset}$  and  $^{\circ}$  both expresses by  $^{\circ}$ , nor between

<sup>11</sup> heard on my arrival in Afghanistan in 1923 my own Pession effected to a "Qajati" by the natives ("Qajati" py metanis') and this sike happened to me repeatedly in Glish and Masandarin in 1914-1915. I cannot say whether standard Persian bears that name in other out-of-the control of the co

<sup>2</sup> v Introduction, p 2

A score of words or so had to remain without P. equivalents, as I did not know them myself and was in one way or another prevented from finding them out. I shall feel pressly obliged to my fellow-workers in the domain of Persan who will make any suggestions with regard to the same (whether by letter or in articles published by them).

to the same (edge: w) seed or in a receive published by seems, which Members of the Persan Legation and the Persan teachers which the Ambridge of the American Legation and the Persan teachers are to the American State of the American Control of the Property and the See in the American Control of the Property and the See in the American Control of the Property and the See in the American Control of the Property and the See in the American Control of the Property and the See in the American Control of the Property and the See in the American Control of the Property and the See in the American Control of the Property and the See in the American Control of the Property and the See in the American Control of the Property and the See in the American Control of the Property and the Property a

<sup>&</sup>lt;sup>5</sup> The number of words in the Vocabulary might have probably been slightly increased by careful persual of all the Afghan printed books and penodicals in my possession, but the probably of detably delayed the publication of the present sketch, I, therefore, contented myself with the number of words across which I had come in actual life during my four years' stay at Kaper.

and \_\_\_\_ both expressed by simple and in the stands everywhere a simple in In brackets, the same word is repeated in Arabic characters. The P. words are given only in A. characters, except in cases where the word in K. and P. is identical, but merely differently bornounced.

Wherever possible, examples of sentences or expressions, in which the word occurs, have been given under the respective heading and the origin of such a sentence has been marked, as mentioned in the Introduction 1.

The text of the history of 'A bd ul-Karlm a and the part of the history of Muhammad Amin accessible to me have been carefully perused and all peculiarities in the language of the same ('Fajikl') coinciding with those noticed by me in Kābull have been recorded under the corresponding beadings in the Vocabulary.

<sup>----</sup>

### VOCABULARY.

## Abbreviations

A. = Arabic1

=Amān-ı Afghān

AI. = Anglo-Indian Aw = Awestan

Bianchi = J. D. Kieffer and T. X. Bianchi, Dictionnaire Turc-Francais, etc. Paris, 1835-37. BrDial. =E G. Browno. Some Notes on the Poetry of the Persian Dialects JRAS, 1895

BrYear, =E G Browne, A Year Amongst the Persians London. 1893

=The Afghan Custom Regulations

E =English =French

Fallon. = A New Hundustani-English Dictionary, etc., by S. W. Fallon. Benares, 1879.

Gesg = W. Geiger. Kleinere Dialekte and Dialektgruppen (Grdr. d. ran. Plul 1 2 pp. 287 423). = Hindustani 2

Hobson-Jobson = Hobson-Jobson. A Glossary of Colloquial Anglo-Indian words, etc., by H. Yule and A. C. Burnell, London 1903. Horn =P Horn Neupersische Schriftsprache (Grdr. d. iran. Phil.

L 2. pp 1-200) HoutSch. Houtum-Schindler. = A. Bestrage zum kurdiechen Wortschatze ZDMG, XXXVIII, 1884.

LoBirj =W Ivanow Persian as spoken in Birjand JASB, XXIV, 1928. IrKurd. Ivanow, Notes on Khorasani Kurdish, JASB, ≂W

XXIII, 1927.
ust. =W lvanow. Rustic Postry in the Dialect of Khorssan. IrRust. =W

JASB, XXI, 1925.

Tab. =W. Ivanow, Tabaqat of Ansan in the Old Language of IrTab. = W.

=Kābulī LorPhon =D. L. R. Lorimer, The Phonology of the Bakhtiari, Badakhshani, and Madaglashti Dialects of Modern Persian With

Vocabulance, RAS Prize Publication Fund. 1922 5. LorPsht. = D. L. R. Lormer. Pashtu Part I. Oxford. 1915.

LSI. =Linguistic Survey of India. MorgFront. = C. Morgenstierne. Indo-Iranian Frontier Languages I, Parachi and Ormuri, Oslo. 1929.

Arabic words current in K. or P are n o t specially marked as such m the Vocabulary, and the mark A. is used only when, for the sake of

comparison, some originally Arabic form is quoted.—

The mark H. in the Vocabulary does not necessarily imply that the word is Indian in its origin : it merely means that it is Indian in its use, that is to say, that the word so marked (very often a Persian one, but obsolete) occurs no more in P, but is found in that form in Hindustani from which it might have been borrowed into K.or (more probably) vice · versa .-

3 Only the "Badakhshani and Madaglashti" part of it has been taken into consideration in the course of the present sketch .--

## 54 Journal of the Asiatic Society of Bengal [N.S., XXVI, 1930]

MorgRep. =G. Morgenstierne. Report on a Linguistic Mission to Afghanistan. Oslo 1926

MorgShugh. =G Morgenstierne Notes en Shughni Norsk Tidsskrift for Sprogyidenskap, Bind I 1928

MorgTexts = ( Morgenstierne, Persian Texts from Afghanistan.

Ex Actorum Orientalium volumine VI excerptum,

Morgil'ac =G Morgensuerne, An Etymological Vocabulary of

Pashto Oslo, 1927.

MP. =Middle Porsum.

ols =obsolete.

P =Standard Colloquial Persian.

Pāz = Pāzand.

Phillott = D. C Phillott Colloquial English-Persian Dictionary, etc. Calcutta 1914

Calcutta 1914

Platts = John T. Platts. A Dictionary of Urdü, Classical Hindi, and English. London 1911.

Port. =Portuguese.
Psht =Pashtul

R = Russian 1.

Reverty = H G Reverty A Dictionary of the Pukhto, Pushto or Language of the Afghaus, etc., London, 1867.

Salemann = C Salemann Mittelpersisch (Grdr. d. iran. Phil I. l. pp. 249-332).

Soein = A Scom. Die Sprache d. Kurden (Grdr. d. iranischen Phil I.

2. pp. 249-280).

Skr = Sanskrit

Steingass = F. Steingass. A Comprehensive Persian-English

Steingass = F. Steingass, A Comprehensive Persian-English Diotomary, etc., London T. = Turkish 1

 (with a figure after it)=F. Teufel. Quellenstudien zur neueren Geschichte der Chänäte ZDMG, XXXVIII, 1884.
 Täj. =The Tajiši of Buklařa;

v. = vide, see

Taughan = Vaughan A Grammar and Vocabulary of the Pushtu

Language Calcutta, 1901

vulg. = vulgar

<sup>&</sup>lt;sup>1</sup> These marks are not meant to imply that the word so designated is necessarily Turkish, or Pashtu, or Russian, etc.—they merely indicate in which language the K. word occurs in the same or similar meaning or form.

#### Vocabulary

#### Α

- - عن آباء اجداد مال مسلمانها را بعما و تارات میکودند p. 821 14
- adrak (اورک) H = P رنجفنل زنجسل gmger of Skr ārdraka. But 'Abdul-Karım p. 4 l. 15 has رنجسل
- afsar (اصر ) E. = P. ملحت منص military officer.—A curious kind of popular etymology is felt in this word, probably connected in the thought of the population with P. انسر "crown".—
- aftāndan, aftīdan ( الغندن العالدن ) = P. (الغندن العالدن ) to fall. aftīdan v the preceding: aftīdum da daryā ( الغندم در درا " ا tell into the river". - cf. also IvBirj. No. 129 p. 305 "eftīdānyum".
  - cf. also Divān-i Shama-i Tabrizi (Nawal Kishore edition) p 202 l. 4: (ررشائر درخت ترجنس خام فقددم).
- "he was under the influence of the opium-drug". avlaban (AA, اغلب ) = P. اغلب or اغلب mostly.—
- ajant (AA (اجنت) E. = P. آثانت) B. agent (of a commercial firm, a bank, etc.). Not to be confused with the P. آزان F. which means "a policeman".—
- هراغ برقي.P= چراغ الكتربكي --: electric ورقي.P = ( الكتربكي = P. هراغ الكتربكي electric العسر "--------------
  - alāwatan (OL. علوة بر اين or سر علاوة P. علوة besides; in addition to it.—v. Adverbs in the Introduction.—

alāuda (عليدة ) = P. عليدة ('alāhida, vulg. also alāhidda); i.e. alāhida > alā'ida > alāyda v. chapter on "Pronunciation" in the Introduction. cf. LorPhon. p. 167 (in the specimen-texts, but omitted in his vocabulary): B. aloi.id; cf. also MorgFront. 233a, where a case of an extraordinary spelling (sic) is recorded.

aliqin ( أوس lantern.-From the E. "hurricane [-lantern]", but probably connected in popular thought with A. عليق "suspended; hanging". Hence the

hard -q- sound. altāyī ( C. الثاني ) T = P. الماني black fox (skin) .alwan ( الدارس ) = P. شلّه chintz : calico : alwan-i surx (C.) " red

chintz" -

 $alw\bar{a}ri$  ( الرائي wardrobe; cupboard. From H.  $anw\bar{a}ri$  ( الرائي) = Palmārī "almyrah", ef Hobson-Jobson, sv.

eontinually .-- منصل-منداول .P ( همه وقته ) continually ambur (اسور) = P. الا nippers, pincers, cf. ātuisgīr and pulās .--

umči (AA معمده ) = P. معجنس such, suchlike.amman qarīb (AA. عنقوب ) = P. عنقوب ('angarīb) approxi-

mately  $amr\tilde{a}[h]-i$  (\*) = P. b with:

the agreement of " فرار داد شركت المان همواة افغانستان AA the German Company with Afghanistan." Even amraihl-i bā in the same meaning: amrā[h]-i bā panvil binawis "write with a pencil!"- Synonym kat-i, q v.

قهر و انوحي او .energy : AA و حدّ و حدد .E. or F. = P "his authority and energy ".-

partnership; messing مشاركت or مشاركت partnership; messing together .-- From Psht اندبوالي, which seems to be a corruption of P. همديواري "neighbourship" (lit. "sharing the same wall "). Constructed with the verb انداخد. andiwāli andāxtan (انديوالي انداخني "to become " شرىک شدن ) P. partners; to start messing together". cf. also Morg. Front. 234b.

angāstan (انگاشتن ) obs. = P. محسوب كردن to think; to consider; to estimate .--

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antrīg ( انتريك ) E. = P. فننه intrigue.—
anwārī v. alwārī.
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apran, apram (ابرم - اپرن ) E. = P. بيش ىند

aprīl ( ابربل ) E. = P. اوربل F. April.-

aprīš (AA. اپريش) } E. = P. عمل دست - عمل و operation عمل جرّاهي - عمل دست - عمل (surgical).--

apt (مفت ) = P. معت (haft) seven

apda ( المفعد ) = P. محمد (hindah, thus in spite of Steingass' "hafdah" q.v.) seventeen —

aptāt ( هعناد ) =P. هعناد (haftād) seventy.

ar (هر) used with a negation = P. مبح no; none: Ad. و در هر الله no; none: Ad. مبرة no ; موقع از نقل شققت مادرانهٔ خویش خودداری نکوده اند and on no occasion has she (the Queen) abstained from showing her motherly kindness".

arākin (AA اراكس) = P. اراكس chiefs, grandees —The word is an A. broken-plural form from its P equivalent which in itself is a plural from A. من بن pillar".—

arbāb ( اربات ) = P. کد خدا chief of village -cf. also garyadār,

in P. اربات (plur. fr. A. ت) "lord") means "master" and with regard to a village "the owner; a landowner, a squire".---

arča (\*,...) = P...... a kind of tree and wood smiller to the plane. W. I van ow was so kind as to suggest (by letter) that it might be a provincial pronunciation of the word a-y.l "plum-tree", which he himself has often heard thus called in Khorasan. That cannot, however, be thought of here, as the planks of that tree (which were said to be brought from Badakhshian) were about 12-14 ins. wide and were used for carpenter work —

ar dus, ar duyisān ( مر دوناش عبر درش ) = P. هر دوناشان - هر دوناش ) both of them.--

arhat (اوهت = P. الرهب a well.—Borrowed from Psht. والرهب a rhatt
"a well with a Persian wheel for drawing water"
(Raverty).

askar ( مسك ) T. = P. مراذ soldier.—The word is chiefly used by Turkish speaking peoples and is obsolete in P. It occurs many times in 'A bd ul · K a r tm 's text: p. 14 l. 15; p. 16 l. 19; p. 18 l. 10, 11, p. 20 ll. 8, 9, 16, 17, 22; p. 24 ll. 2, 16; p. 26 l. 13, etc. 1 find it only once in Teuf cl,

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and that as a part of a compound-title: قاضى عسكم p. 347 l. 12-13 (note).

aspār ( اسيار ) = P. گار آهن a plough.—Whether meaning "horsepropelled "?

ašt ( مشت P مشت (hašt) eight.--

aštāt ( مشناد ) = P. مشناد (haštād) eightv --

ažda ( درده ) = P. درده - درده (hiždah-hijdah in spite of

Steingass' "hajdah" and "hazhdah", q.v.). -atan (اترير) Psht. =P. رقص dance.-From Psht v.

Raverty, s.v.

ما عنيق ) ( عنيق ) atīga ( عنيق ) =P. فديم old: NN. عسكرى عليقه )

"the new and the old military ranks";

old-minded; conserva" فديمي خيال P عنيقه خيال

tive ".--The word means in A. "free; noble; of old (i.e. noble) descent; thoroughbred (of horses); old (i.e. "venerable": ست العتبن "the old house", i.e. "the temple of Mecca"), but is never used in P. as an antonym of 'new"

in the ordinary sense of the word .-antiquities.--Plural of the preceding I have never heard that A, word used col-

loquially in Persia in that sense. The somewhat similar in sound and meaning P. انتيك (F "antique") is also never used in its original F. sense, but means only "fine, elegant, stylish", etc

ahoy! oh! ماي - اي . P. ( هو - هاو؟ ) w aw biya = P. , cle to "come!" (when calling a servent):

aw bača = P. rather in plural موجعة (unless the same إلى اله is concealed here) "boy ! "airman.-Of recent formation on هوا باما .= P. هوا باز

the pattern of awbaz a.v.

awāxurī (هوا خوري ) = P. گردش outing; going for a walk.---Probably under the influence of H.

swgār ( انگار ) = P. زخم الدّبت hurt; wound. of. also I vT a b. 378. azārdāļa ( عزار دمعه ) =P. with pleasure; certainly. v. Introduction, p. 43.

- az pēš raftan ( از بنش ردتن ) = P. بنشوفت کردن to advance, to prosper :
  - AA. کار اوشان از پیش مي نرود (kār-i ūšān az pēš mīnarawa) "their affairs do not prosper".—
- تَّاو رصركت را آناد و فريد كاهداشته well-fed: AA و ( آباد و فريد كاهداشته evell-fed: AA ( آباد و فريد كاهداشته keeping the cows and asses well fed and fat " 1 find in 'A b dul K a r Im's text الله عند " procious stone" p. 36 l. 2 In P. دل means only "cultivated: well-
- ordered " (ot land, gardens, oities, etc.)— مقطعت المام (عالم) و الم) بين منافعت من المام (عالم) و الم) بين المنافعة ال
- = P. بمثانی مشعبی احداد " a person has come". Although the word is known and sometimes used (in the meaning of "servant", "employee": اثم مشر الدلاء " servant of M.D.") in P. not only as the name of the biblical Adam, still its use is not outrent in P. in the general sense of "man".—The word must have been introduced in K. under some foreign, probably Tr., influence, seemingly in earlier times, as we find it in H. as well.
- āftāwras, āwtāwras (رس ) = P. طلوع آفنات sunrise. cf. also LorPhon. pp 174a, 190a.
- قgest ( اگست ) E. ⇒P. اوت (F.) August.

etc.-

- āhīn (أندس أ iron. For the icf. Salemann p 264 § 23; Socin p 258 § 31; also Hout Sch. p. 48.
  - alsi ( آلش ) T = P. موض معاوضه معادله exchange, barter.

    Constructed with حوض كودس
- قسمطور آمدات , happenings: OL بيش آمدها ) = P. أمدات ,happenings : OL بيش بيش بيادد "so that such happenings should not occur again".—
- $ar{a}nar{a}$  ( اعني P ( اعني ) = P ( اعني ) that is to say; i.e.—Though good A. in itself, this form of the word is never used in P.—
- قاه قاه (آهسته (ahada) = P. بواش (more seldom) آهسته (āhada) slowly; gently.—Occurs in 'Abdul-Karım's text p. 1091 10.
- قstriyī ( استربا ) E. =P آترش (F.) Austria.—
- āt ( عبد ) = P. عبد ('ahd) agreement.—cf. also šāt, rstāt, etc.—
- قلمة قَلَمْ ناس tongs of ambūr.— آنشكير) tongs of ambūr.— قَلْق ( آنس ا P. نيل the following. In P. آنس means only "future, to come".—Very current in AA., MA., OL.,

-... swimming شبو - شنا .P ( آب بازی ) swimming

nuraw ( آل رو ) = P. ال وي الب a stream, a ditch (with water) of.

awriz ( موال. P. مدال ) = P. مدال latrine, lavatory.

āwlāwras v. āļtāwras.

ayina ( أَبْنَهُ ) =P. الْبَنَّةُ ( window-pane.—In P. الْبَنْةُ ) أَبْنِيْةُ ( أَبُنِيْةُ ) أَبُنِيْةً ( mirror, looking-glass ".—Yet even in K. "a glazier " is called أَمَّاهُمُهُ بِر ) as in P.—

aginu-zīna (أثنف كانة) means in K. "a glass-veranda", whereas in P. the same word is used to denote a room with walls and ceiling consisting of mirrors (Germ "Spiegelzimmer").—

В

búbar (سر ) = P سنر (śīr) lion.—In P. نور (babr) means "tiger" —

bačča ( سر P. سر son :

Ghulām-Ahmad Khan, عقم احمد خان نتجة سيهسالار OL

the son of the Commander-in-Chief".—
Also in Taj . 'Abdul-Karım has got p. 68 l 16

ان (: Schefer, translation p. 155) "la femme et les enfants d'Omer Bi";—p. 701.8 "رن و بچهای آنهارا (در و بچهای آنهارا: (Schefer translates p. 158 and. I. think. wrongly) "les

femmes et les enfants en bas âge ".-

badruqa ( نواسرزان ) = P. نواسرزان escort:

mā inssāl bā badruqa āmsalām "we travelled this year with
an escort"—In Tā [14] seems to have rather the
sense of "bannshment, deportation". Thus in 'A bd ul 1
Karlm's text (د کتر کتر کتر کتر کتر الما 11 "he banished
him from Bukhara" (Schoferp, 144: "celui-cil l'exila
de Bokhara"); p. 101 1 19:20

[Schofer, translation, 227) "exil—","—

The word badraqa is, however, used in P. only in the sense of "seeing off; accompanying (a friend for the first stage of a journey)", cf., for instance, BrYear 158.—

.buggy. در چرخه H. = P. کی buggy.

The etymology and even the origin of the word seem to

be unknown. Probably H. of. Hobson-Jobson, s.v. bayna ( بوست براً تودلي P المناقب ekin of a dead-born lamb;

morling.—

از مك ماء النظوف .before; ago : AA قبل ) = P. قبل be ba-intaraf ( ما لنظوف ) = P. الماء فعل فيا فعل الله على الماء فعل الله على الله على

ba-kār( کار )= P. کار necessary.—Also :

ba-kār būdan ( يكار بودن ) = P. لازم بودن to be necessary ;

to need : فازم داشدن .P = ( مكار داشتن ) ba-kār dāstan

 $mar\bar{a} \ ba-k\bar{a}r-as$   $ma \ ba-k\bar{a}r \ d\hat{a}rum$   $Ma \ ba-k\bar{a}r \ d\hat{a}rum$   $ma \ ba-k\bar{a}r \ d\hat{a}rum$ 

hour : ساعت , H. = P

panj baja (بنے سعة ) = P. "[at] five o'clock"; sometimes also:

ba-sāt-i pang baja ( ساعت پنے بجه ), or :

OL. بعمل دو بنجة (bu-amal-i du baja) " at two o'clock".—

buks ( ملس ) É. ⇒ا. کبف purse ; wallet ; bag. —From E. " box ".—

bamba (دننه) Port. = P. ماشدن - فسر a pump; a water-tap; an engine; a railway-engine.—From Port. "pompa" through the medium of H. cf. Platts

bandī (ندنى) = P. رندنى) prisoner, convict.—'Abdul-Karīm, p 741. 17 has got استديان را

band kardan ( نند کردن) = P. غبر الله colose, to shut: darwāza band ku = P. غبر از ایا سند Probably under the influence of the influence of the influence of the shafta kardan

the influence of H. مندها etc. ct. also busta karaan band sudan (رند شدن ) = P گرفتن to take (speaking of fire) syn. časnidan.

bandubast ( توار داد - قرار H. =P. توار داد مقرار Mt. =P. نندوبست arrangement, agreement.—Not used in P. and probably never was.—

bank ( ننگ ) E. = P. كاب F. bank .--

bar (بر) obs. = P. عرض width, breadth.—Is also used in P, but less often, and might be considered both obs. and vulg.

baranda (بنده ) H. = P. والترب و (The P. equivalent was suggested to me by W. I vanow.) For the origin of the word and the various hypotheses regarding the same v. Hobson-Jobson, 9640-966...

barča ( سوهه ) H. = P. نيزة spear.--

prominent; excellent, مبعاز - شامان . H. = P superior, distinguished : AA. خدمات برجسته 'distinguished services". Platts gives, however, for that H. word entirely different meanings, v.s v.

barqīwālā ( يوفي والا ) H. = P. مندور F-R. electrician - For the suff wālā v. Introduction, p. 17.

barsātī (برساني ) H. =P. بالتوى باراني raincoat, mackintosh, waterproof. -- From H. برسات barsat " the rainy season ".

-- sowing كاشدن P (برزافشاني ) sowing كاشدن to come to منقصی شدن .obs = P (سر آمدر)

end: to end .to be concluded : مدمقد شدن P بسنه آمدر to be concluded

a treaty of " كك معاهدة معاونت و بأمينات بسنة آمدة است AA mutual assistance and security was concluded ".to shut, to close. v. Intro-

duction p 28. syn. band kardan .-

to be counted محسوب سدن .P = ( نشمار رفض ) to be as, considered as,-

regarding; concerning; در خصوص P = ( بعاطر از ) regarding with reference to .for · hazártān (the بواسطه - براي P ) بواسطه - بوايي for · hazártān (the

short -1- being probably an izafa, cf. the chapter on or بواسطة شها - برايدان = (Pronouns in the Introduction .... " for you " ( واسدُ شما

tip, gratuity.--In P. بخشش, though انعام . II = P انعام bazší (نخشش) hardly ever used, means " a gift " (from a superior), نقديم being the term for "a present, an offering" (from a subordinate). Both these P. words denote presents in kind, whereas in K baxis is used, as in H. and also in T , to denote a monetary retribution for slight services supposed to be rendered by subordinates -cf. for it the most lucid excursus in BrY e ar pp. 68-69, on the different expressions used in P. in the sense of "presents" .-

to give, to grant : مخشبدن ا عشودن ) baxšūdan

برابها (sic) جو به ذُلَّت از چین حارج شدن دیگر نتیجه نخواهد .AA "no other issue can present itself to us, but to leave China with shame" .--

In P. بخشودن means " to forgive, to pardon ".--

etc. جبال بي - مظمى بي bey: AA. بيك T. = P. بين وetc.

bayn ( مرميل = P. بحر انو المرمل in, inside.—In P بسيد means "between". One might be inolined to think that, after all, the K expression is not at all that due, what might be one of those rare Huzvarishn words (like gabra— المرب which have somehow leaked through into Persian from Pahlavi: in fact the MP. ideogran dayen (trad.) or bdén also means "in, inside" not "between" and has for its Pāz. equivalent andar—

 $baytu-l-xalar{a}$  ( بيت الخطّ ) T. = P. مستراح lavatory ; syn.  $ar{a}wr\bar{s}z$ , q.v.

bābā (UU) = P. Day father: ī bābāś-as "that is his father". In P. the word is used caressingly by children when addressing the father (or jocosely by parents when speaking to small children, or also as a term of contempt when talking to a subordinate) and corresponds rather to the F. "dad, daddy".—Hout Soh p 51 gives also bābā "Vater", as "Dialect von Sô, emem Dorfe zwischen ligahahn and Kaschán."—The word padar is, however, also current in K.—

bābā γατγατί,—γατγατû (مفري - غرفري) لله فروي. كغرفري - غرفرو الله bābā γατγατί,—γατγατû (ندر الله و thob. fr. the Psht werb أورد although there also exists a P verb أورد (yαττίαα) of the same meaning. All these words are anyhow onom-

atopoeic bābā kalān v. padar kalān

bādamyān-i rūmī (رمي) = P. الونجف نرتكي tomato.—The word لوجه المناسبة tomato.—The word المنجل regr-plant" and is seemingly a corruption of the A. (بيما الجال (فيمة الجالي) (sing. "eggs of the genii", one would say in E. "devil's eggs".—

لر دار = master, employer. —Probably و مارت المقاقة (الله " supporter"). "one who provides for; a bread-giver" (الد " supporter"). of. I VB ir j. p. 301, No. 111; p. 304, No. 125 etc. and in his Vocabulary pp. 338, 343, given as bodon, woodon. The form with initial w. has not come to my notice in K. of.

also MorgFront. p. 389a (in Ormuri).—
bādrang ( بادرنگ ) H. = P. غيار oucumber.—In P. عبادرنگ means
only "grape-fruit"

اللا پرش (اللا پرش E. پالا پر الا پرش الا پرش ) bālāpūś (ابالا پرش الا پرش E. overcoat.—Probably a translation of the E. term. In H. بالا برش بالا برش overlet, quilt" (Platts), but it might have been

borrowed (one way or the other) and misapplied or differently applied in the two languages, syn. dabalkot, q.v

bālišt v bilist

bāmb ('.....) = P. rb roof LorPhon pp.
184a and 200b. respectively gives, however, hāng, bāng
and bām for Bdkhsh. and bom, bām for Mdg

and out the first in an down, out to the state of the st

bāqn (فال = P. فرامة frog—of IvTab p 11 note, where obviously the same word is recorded with another spelling من واعد و الاقتار p. 338; MorgFront 240 b.

ב ( داشد عن المامة عن المامة عن المامة عنه المامة المامة عنه المامة ".— ( المامة المامة ".— ( المامة المامة ".— ( المامة المام

bicycle.-- دو چېخه . E. = P. د جېخه

برای رفقن و نارِ return مراحمت ro بر گشتن . E. ( نار گشت) bāzyniti ( نار گشت ) bāzyniti ( نار گشت ) bāzyniti ( نار گشت ) for going and returning (Afghan visa on passports).—

behbūd (AA. سبودی ) H = P. سبودی woll-being.—Both forms of the word are used in H un the same meaning, but the shorter form is not used in P.

bēd ( سد ) = P. سد (bīd) willow.--

bēgāh v, bīgāh

 $b^{pri}(\omega)$  و نوان در الله (bih) quines.—We find, however, that form in older literary Persian, e.g., in the Shāhnāma: می آورد د باز (Vullers-Landauer vol. III. p. 2) "she و ترتیم رسی

brought wine, pomegranates, oranges and quince". bēl ( بيل ) = P. سل (bīl) shovel.—

bēlar ( بيتر ) = P. بيتر (bihlar ) better. Also:

bēlurtar (بهتو in the same meaning.—

. besides; except استثناي or مغير ار. P= (مدرس [ از] ) [zz] المائة الما

An المراحي لادري الاستان المراحي المراحي المراحي المراحي المراحي و except those of willow ". of also 'A bd u l . K ar I m's text, p. 84 l 5: بدري مخالات الاحكاد المراحية " Bukhara is the nearest (foreign) country " (lit. "except Bukhara there is no country near").

biland ( بانو) = P. منا (biland) high.—of. MorgFront. (Par).

241a be'land; Iv Birj. p. 301 No. 113 belände. But

LorPhon. p. 185a buland and 201a büland (the first probably a mistake altogether, and the second an inaccuracy). Steingass gives for it the incredible pronunciation buland.—

bilist, bīlišt ( جب ) = P. جب, span.—Probably H., of. my "Afghan Weights and Measures", JASB. vol. XXIV, 1928, No 4, p. 421.—

bi-l-kull (ا لكلّ ) =P. بكلى wholly, completely. ---

-- bill ( مردت حساب .E. = P ملّ ) bill صورت

birtain, England .-- الكليس H. =P. الكليس Britain, England.--

more.-cf. bētartar. بشتر P. بسار تر more.-cf. bētartar.

bišqāb ( الشَّقَاب ) = P. شَقَاب (bušqāb) plate.—

hidu (אינ) = P. בּשִּיֹבֶּיי hay.—Phillott gives: "Hay bida (dried lucerne); yunja (aic) green lucerne; 'aluft khushk'.

In Persia, however, 'green lucerne' is called 'ulaf and "hay" yūnje' W I v a no w (in personal conversation) was so kind as to attract my attention to the word võs and zuük-võõ used in the colloqual of Qazvin for "hay"—The word was unknown to me, but S te in ga sa gives, s.v. \_j', "Forage, food for cattle'" (as usual, without any indications as to ite origin).—

bigāh, bēgāh (الله) = P. وفت شام مشام in the evening at eventude.—The same in Psht., v. Raverty, s.v. But, even in H. (cf. Platts, s.v.), not to speak of P., الله means "untimely; inopportunely".—

The word occurs in Muhammad Amin's text. T. 363 ll. 5, 18; 370 l. 14; 374 l. 14.—

bīkār nabūdan ( کار داشتن الله: to be busy: ma bīkār nāstum = P. بنکار دارم "I am busy".—In P. سبکار means "out of job, unemployed; idle".—

bînî ( (مننی ) obs. =P. دمانی nose.—cf. Lor Phon. p 200 b.; Morg Front. 241b. bîni'xân "nostrîl".—cf also Morg Texts 321 note.

bixī (نطفي) =P. أطمأ fundamentally; wholly; totally; absolutely: bīxī na-mānda "nothing absolutely remains"—

b'rāmadan ( ربر اَمدن) = P. (بر اَمدن) اتفاق افناهی د بیرون اَمدن to go out; to come out; to happen: b'rāmada "he is gone out; he is not at home";

AA. نبرامدة (nabrāmada) = P. نبرامدة "it did not happen";

milrōyad" it happens";" he will go up", "he will go up", "A b dul - K a r I m has got several instances of رسماً با used on that sense: p 16 1.6 من أو تحاول الله و الله

Teufel has got: م بر آمديم . 10; p. 375 l. 10; p. 373 ll. 9, 10; p. 370 ll. 9, 10; p. 390 ll. 33; he has, however, also instances of the correct use of the verb (probably under the influence of literary Persian to which Mu ham mad Amin seems to have been more open than 'Abdul·Karim', for instance: p. 376, ll. 4-5 with the mind of the mind

نحيرة بالنبك" Aa; gulf: AA خلير وربا ( سعيرة ) النبك " the Baltic Gulf" —In P. سعيرة " a small sea; a lake" —

bulukmišı (ناوى مشو ) = P. نائب Lieutenant : bulükmišr-i duyyum

Second Lieutenant. From T نائب دونم | = P ( بلوك مشر دونم ) Second Lieutenant. From T buluk " platoon" and Psht. مشور mašar " elder".

bur. (دوتر) = P نورتر) brush brush.—Strangely enough the K. word seems to be bortowed from P. "brosse", whereas the P. term reminds us of the E. "brush". One would rather expect it to be the other way about.

burut (مروب) H. = P. سمل whiskers, moustache. of. Steingass. s.v.; LorPhon. 185a; 201a; Morg Front. 242b; 389b; Morg Sh. 49. In Psht., however, بنائه bret (Raverty)....

butal ( سطل ) E. = P. يطرى (butri) bottle,-

المتعلم ( الروك ) = P. والي a saint.— cf. kalān. In P. برزك ) means only " great ; big ; large".—

hudana ( بلدرچس T. a quail,---

hudā ( بود ) H. = P. بر مرد old man.—Also Psht ا بود būdda.
Obviously H. مود buddhā "old, aged ; old man".

bitdubāk ( نود و داش) H. = P. افاصت staying; stay.—of also bandubāst: most of these compounds, of which H. is so fond, have entirely disappeared in P. (or, maybe, never extend at all).

- būra (1941) H. = P., xa sugar.—Obviously the H. 132 būra ("powder; sawdust, filinge; coarse sugar; white sugar" (Plast ts).—ol., however, Steing as s. s. v., who gives, besides the ordinary meanings of the P. word 132, also the meaning "1 um p(1) sugar".—
- bag.--- على المسابق ا
- فهاکمه būt (توت) E. =P. (1) پندن boots; (2) پندن F. shoes, and (3) ههاکمه knee-boots.—

Č

- čaka (هلام) := P. بنبر heese. -- of. Psht. هيئه "coagulated milk, curd" (Raverty). Probably connected with the verb "to drop. distil: trickle. ooze".--
- to drop, unsul; rickne; ooze .... برل خرد (chillan) pourrency; current; (2) currency; current; (2) علان small change.—Probably a corruption of the H. بلك
  - čam (جم ) = P. جمو grass; turf, lawn.--
- نا مسن بال H. =P. المجبلي jessamine.—
- čangak ( چنگک ماهی hook : čangak ن māhī (sic چنگک ماهی) = P. چنگک ماهی )
- upside down: وارونه سرنگون . P
  - čapa kardan = P. بر گرداندس to turn over; to turn upside down":
  - čapa šudan = P. " سر نگون انتادي to fall upside down; to get overturned".—Obviously from P. " اولان", in the meaning of " the wrong, the reverse side".—
- قرم ( ميس ) T. =P. no equivalent. A coarse mantle made of thick cloth (almost like felt) peculiar to Afghanistan. Bianchi gives " بولل " vieux (sic) vêtement", which is obviously our word.—
- قسه خواب الله B. =P. (چپرکت bedstead.—The word is obviously an adaptation of the H. چپرکت خوابرکت "tester-bedstead". The K. word is, however, applied to the roughest kind of trestle-bedsteads made of inter-

capli (چپلی ) H. = P. چاری sandals, slippers.—From the H.

rnot. čarρū (جربو) = P. چرني fat; fatness.—cf. MorgFront. p 246b.

دىنى = P. گردىنى to take (speaking of fire). ct. supra band sudan.—

eiisim (جثم) = P. جثم (èusim) eys.—Note the intercalation of an unnecessary vowel even in an lianian word. in A. words ending in two consonants such an unwarranted intercalation of a yowel is almost as current in K as

in India: wiqu (inst of مُشِع ); مُنْسِع (inst of شُعْم), qútul (inst of شُعْر), súbir (inst of أَسْر), etc. Before an uzufu,

however, that superfluous vowel disappears, v. Introduction, chapter on Pronunciation, p 13-14.

raid ( جنل ) H. = المجابع dirty.—Probably H. چنگ "spotted,

--- umbrella, sun-shade چنر H = P ( چنری ) ratii

speckled ".--

جُوكِتُ H = P. او frame. Obviously the H. چوكِت "frame of a door", etc. (Platts).

rauki (جود) H. = P والمودي chair. cf. Morg Front. 245b.—
brakhidan, publishan (حولانس جود مرسل به والمسلم المسلم المسلم

eonnected with "hammer": I find in Morg Front. 391b the latter word with the spelling ču'kūš?

a chowry", cf. Hobson " مكس يران .H.=P ( چورى ) #.=P Jobson s.v.

قردو P. گردو walnut.--Nay, even : čūb-i

čarmayz "walnut-tree". cf. also LorPhon 179a, 194b (given in the latter case as "carmas"); Morg Front. 392a, given as "čár' máys"). The compound the four marrows", is used in P. to indicate " جهار مغر a trayful of four kinds of nuts, ie., walnuts (گردو), hazel-nuts ( عوز ), pistachios ( سنة ), and almonds ( مادام ), which in Persia are often served at receptions on various occasions and eaten together with dry raisins -

rar-ra'i ( جار راهي ) = P. اجهار (اهي ) a cross-road; a crossing.--With a yā- yi nisbat —

نَّهُ بَالِ خَالَة لَ Barracks, cantonment. (چاوبي ) H. = P. ميار خالف Obviously the H. .-

čāwuk ( چانگ ) obs. = P. عي quick : čāwuk biyā "come quick!" Lor Phon 179a, 194b. In 'Abdul-Karim's text

هرگاه کسی اندک چانک : the word occurs only once p. 104 l. 3 31 " if anybody does not move quick enough .... ".

: teapot And also غوري - قوري P. چاي حواش ) teapot . řāynak ( چانکٹ ) R. = P. "

a sieve.—cf. also MorgFront. 391b.

rihāp ( چباب ) H. = P. چاپ (čāp) printed; printing; print --

čiklīt ( چكلبت ) E. = P. شوكولاد (šūkūlād) F.-R chocolate.-

vater-pipe, hookah .-- قليان H. = P. قليان water-pipe, hookah činār (جنار) = P. تبريي poplar (Populus alba). In P.

the word jua is used for a "plane-tree" (Platanus orientalis).

činčirdin ( بنتجردين ) E. = P. تنتبور دبود F. tincture of iodine.-

či-wiqit ( چه وفت ) = P. کی when.-The P. word is very seldom used in K and even not understood at all by the lower classes of the Afghan population, who invariably mistake it for مل " who ".--

قند ( عبي ) T. = P. الله small-pox : čičak zadan ( جبع ) = P. "الله كويد" to vaccinate ".-

دَّ kardan ( بِعَر كُرِيْن H. =P. عارة كردُن to tear up.—Obviously fr. the H. (چير ا to rend, tear ", etc.

duj v. čūp.

crumpled, چىن خوردة - مشردة - مُجِاله T. ?=P. پين خوردة - مشروة - مُجِاله creased —

čup v čūp.

čurut ( چرف ) A -I =P. سگار cigarette syn. sigrit q.v. From A -I "cheroot".—

ردی ( جَے) = P کی, elever. Lor Phon 179b has got:  $\delta uk$  "straight, upright (i)" which seems to be the same word. خان wood-seller.—For the suffix

v. Introduction, p. 17 čuřa (جوجه) = P. خوبها (μηα) chick, chicken; also "the little ones" of any animal čūčai vūšaik (جوجها بيشک) = P.

" kitten " بحقية كونة

دُهُوهُ مَانَدُ ) = P. تُولِهُ - نَجِّهُ صَنَّدُ "whelp"; nay,

-- "cali" كوساله .P = ( چوچه كاو ) cali".

Lor Phon. 148 gives  $\hat{c}\hat{u}\hat{c}\hat{t}\hat{c}$  "the young of animal, of bird". This seems to be an older form of the same word and probably ought to be road with the sail,  $-a\hat{c}$ , not  $-i\hat{c}$ , [cf. how-ver, the South-Russian (prob. T.). "truley" a whelp; a small dog", where the vowel in the termination is -y (-i), not -a].—

د بورنه) H. =P. اهك وندة و اهك بعد quick line.—Obviously H. جونا "Inne, slaked line" (Platts).—

- čänki ( چونکه ) ع P. از برای ابنکه برای ابنکه چون as; because. Probably under T. influence.
- t. to rob; to loot.-- چابو کردن ) H. =P. چابو کردن T. to rob;
- جوتي .shoes —From H پتبن .H. =P پتبن
- جَهِرِتَّ H. = P. أمولَي holiday; vacations From H. چهرت "severance, separation; liberation, release" —
- دَوَهُ الْ جَرِهُ الْ جَرِهُ عَلَى ] T. = P. no equivalent. A coarse mantle (cf. dapan). From T بنه جهاد جرفه جرفه الله "drap et étoffe en général, et particulièrement sorte de vêtement de moine" (Bianchi).—cf. l vRust 256 "chugha, a warm cotton closk, worn by men".—

#### т

- da (-[]]s) = P. ps (dar) in.-ef. also I v Bir]. No. 12 1 4; No 13 ll 2, 6, 7; No. 15 ll. 3, 4, 5, etc.
- dabal ( دىل ) E. =P. وولاني دولا ي double: nān-i dabal " white bread (European)".—From the H.-E ثبل dabal (used in
- India with reference to coins).—

  dabalkot ( دىك كوت ) E = P. اللو F. overcoat.—Syn. bālāptiš,
- dajādār ( دنمه دار ) H. =P. وکنل اشي وکنل ) sergeant; non-commissioned officer.—
- dalla ( هَلَّ ) = P. هَلَّ الْحَ go-between; prosuress Abbrev of the P. word. Occurs also coasionally in popular literature, as a feminine name: مَلَّهُ مِهْمَالُ , (name of a book, v. H. E thé Neupersische Litteratur (Grdr. d Iran Phil. II
  - p. 323); also (مَلْكُ مَعِنَاكُم), as name of a woman in different popular tales—The abbr. seems to be also current in A.: of. for instance, Burton, Nights, II, 329, and elsewhere.
- dar bayn-i (روبین ) = P. تری درمان میان in, inside: dar bayn-i bāy " in the garden". In P. دربین is applied rather to time than to place: "درس رالا "during the journey", "when passing" v. supra bayn.
- dar dadan ( در دادن ) = P. روشن کودن to light (the fire).-
- darwāza ( (درواره) = P. دريجه من door (of a room, of a house); door (of a carriage, of a stove, of a cupboard, etc.) In P. بالانسان means only "the gates (of a city)".—

daryā ( ادرا عار عال عام P, عال عال aryā ( ادرا ) ⇒ P, عالت عال عال عال river :

means "lake". dastār ( دسمار = P مددل turhan —

directly, immediately -- الآن P الآن directly, immediately

In P دستی is an adjective and means only "oash-money; advanced-money; hand-money".---

daslār ( دسنور ) = P. اماله enema, clyster, clyster-pipe. dašnām ( دشام ) = P. سش abuse, invective.—

The word is obs. in P. but anyhow spelt with a zamm in its initial syllable. duinam

daurāwar (פנילען) = ריי און א all around —It is difficult to deede, whether we have here in the -ā- a part of a suffix -āwar (like, for unstance, in junāwar, q.v.) or a connecting vowel merely. like in P. barābar

dawûr (؟ . . .) = P. ديوڪ a punp, a voluntary cuckold (term of abuse).—

 $d\tilde{a}$  ( No ) = P. No (dah) ten.—

despatched; outgoing: OL صادره - صادر P صادر اداده کی espatched; outgoing: OL سازه مادر کار از تعارت بعارت العاده کی ورارت بعارت of Commerce ". - cf. also finstadagi,

dad a grift (داد ر گرفت ) = P. داد ر مند commerce; commercial transaction.—The standard expression, however, is also used in K.

dāyma ( داعه ) = P. داعه ) =

department; direction : دائره ) = P اداره ) department

AA. ادارهٔ بست و اللزاف .P دائرهٔ بسته و الغراف .Post and Tolograph Department".--

dāk ( كان ) H. = P مناه mail, post: dāk-zāna = P. هالغناي "Post-Office". cf also Hobson-Jobson under

\_\_. peas نغود P. ⇒ H. = P. دال ) H. = P

dahan) دهني (dahan) دهني ) = P. دهي (dahan) دهني

dananidan ( معلوم نمودس = P. معلوم نمودس to make known :

dānistan دانستن P (1) دانستن to know; (2) ملتفت شدن to understand: dānistum sāb "I understand, Sir". Syn. fāmidan q.v. of. also dānista šudan, Introduction, p. 28.

dāru ( داره) = P. راهزني robbery.—From Psht. داره ) و company, a band, a gang of thieves " (Raverty):

NN. زدی و داره و تارام "theft, robbery and looting".—

dāru-l-Nikāma (AA دار العكومة) = P. دار العكومة المالفقات العلامة المالفقات العلامة المالفقات العلامة المالفقات العلامة المالفقات العلامة المالفقات العلامة المالفقات الم

Probably for مرومي "a tennor".—  $dar{a}$  ( داش = Probably for فر a tennor stennor".— the word, though less

dās ( دائس e for cooking).—The word, though les often, is also used in P.

dāw (دار ) = P. عشد abuse, invective. Syn. dašnām. dāw zadan = P. عشن دادس to abuse..-cf. also Steingass

s.v. dēg ( ಲೆ.ಎ ) = P. ಲೆ.ಎ ( dīg ) pot, kettle.—

dewat, diwat (عرات ) = P. واحد (davāt) inkstand.—

dukušā ( LLOs ) = P LLOs (dilgušā) "expander of hearts": kot-s dilkušā pr. n. of a palace in Kabul.

In P. the verb گشودس is always pronounced with a voiced initial guttural.—

diqq, daqq (فير P = ( دَقّ) vexation, anger: ma az tu diqq sudum =P. ضمن او تو فهرم or من او نو فهر كودم 'I am angry with you.''.

The word is extremely current in K. and, though certainly never used colloquially in P., can, however, be traced in literary Persian: In the Mathnavi (Bombay ed 1318) we have got p. 1161. 27:

And not only in older literature, nor confined to Eastern Persia, but also in such a comparatively modern poet of Shiraz, as Qa'ānī in his Parlshān (Browne, Lit. Hst. IV, 327).

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Probably often also elsewhere.—In these two examples it rhymes with hagg, which means that it was pronounced presis with a fath. Yet, in K. the pronunciation digg is by far more current than dagg, though, generally speaking, the vowel in it is somewhat veiled.—

derisi (درىشى) = P رخت clothes.—Probably E. "dress", through H.-Psht. of MorgFront. 251a.—

disambar (دسمبر ) E. =P. دسامبر (disambar) F December.

other; again.--

din[a]ruz ( دنوور) =P. دنوور) yesterday of, LorPhon. 182a, 197b (in the latter place merely dina); also Horn (Grdr. d. iran Phil. I), pp. 27, 164 (dina) —

ancient درنانه .P. فنوس ) ancient

74

diwāl (ديوال - ديوال - ديوال ) =P. ديوال (divār ; wall.—In P. vulgarly,

dobī ( دهوسی ) H. = P. رختشور washerman.—

dictionary.-- كناب لغات or لغات ( دكشنرى ) E. =P. الغات

dumal ( هما P . ( هما P ) = P ( هما P ) imposthume, abscess.—P tein gass, sv. thinks it obviously to be an arabicized form of the P word.

du-mīla (در مبله ) =P. دولوله two-barrelled : دو مبله ) wo-barrelled و ".--

dwad ( دو مع ) = P. دوست two hundred.—Often in the Shāb nāma, also in the Mathnav, for instance, p. 117 l. 13 (B:bay ed. 1318) - که دو صد لعلت بر ابن نقلت ماد V. Introduction, under Numerals.

duklān (AA. درکان ) = P. دگان (duklān) shop.—

dalla ( دولجه ) = P. (1) bucket.—A corruption, in diminutive form, of A dalv > davl > dal. Horn (Grir. d. Iran. Phil. 1) p. 6, 55 seems to accept this form (dol in tetanscription) as normal and thinks it to be an Aramaic loan-word (on p 6) and a Syrac loan-word (on p. 56).— (2) ناهدار الله المساوحة المساو

### R.

en a ( ( . . . . . ). = P. whether اس است or the old " ; " Here ! " ; " here you are!"

falālīn ( فنالين ) = P. فنالن (fanālin) flannel.—

ribbon.—The word seems to be a قيطان P. فلبته ribbon. transposition of the A. نتبله (fatila) "twisted (rope); a wick". Yet, cf. Horn, p. 6, who gives "palita 'Docht"" as an Aramaic loan-word in Persian .- cf. also Lor Phon. 142 p. 20. Raverty s.v. gives only the meanings "a match, torch, wick, fusee", and for فليته دار a matchlock, "ribbon : tape" " with a match ".- The H. " "ribbon : tape " seems not to be connected with our word, being, as correctly pointed out by Platts, s.v., a Portuguese loan-word. -cf. also Hout Sch., 56, who gives pili'teh as Mukri and Khurasani Kurdish, etc.

furniture.- اثاث البيت - اسناب خاله .E. =P ورنهو راك ( البيت البيت السناب خاله ) farvari ( وروزي ) E. =P. فو رسه F. (favriya) February.--

above.-- در موق P. أفوقاً ) above.

failing; failed (at examinations). ا كام E.-H. = P. فعل ا failing; ayr ( عدر ) E.-H. = P. شليك fire-shot, round: AA. ها كلوله فير "fifteen rounds".-

--. completion, settlement (of an affair). عنمة )=P. منمة fayšun ( ببشر. ) E. = P. تربينات decorating, adorning, garnishing .- From E. " fashion " .-

fābrīk ( فاركث ) = P. كارخانه works; mill. From German.

.P. (فادرىقە كرى .MA — فادرىكە كرى .AA ) fābrīkagarī fabrication, production, construction .--/spare-parts بدكى H. = P ( فالتو ) spare-parts.

famandan ( فمماندن ) = P. حالي كودن to explain ; to make understood, to make understand: famanda tuwanistum ? "do von understand?" (lit. "was I able to make [it] understood ?"),---

famidan ( فهميدر ) = P. ملتفت شدن to understand. cf. danistan, In current speech famidan is rather used in a question .danistan in the reply to the same :

Q. famidi? "did vou understand?"

R. danistum "I understand" .---

fasila ( فاصله ) = P. لربيا phazel, bean.--

sent, dispatched : OL. فرستادة كي ) = P. فرستادة على ) sent, dispatched

the note sent by yourselves". v.

Introduction, p. 17 cf. dādagī. firistāndan ( موسنالاس ) = P. ومسنالاس to send, to dispatch, to forward.—v. Introduction, p 31.

firiviidan ( ورصندس ا to send. cf. uftidan, aftidan... firqamiir ( عرب الله عشر ) = P. مدر بنج Lieut.-General...For the second link of the compound v. supra bulükmiir ...

a turkey. — بوطمون A H. = P ( سل صرع )

fi-māh (ادر] ماهی or نساه or اساهی) = P. ماهی او per mensem.—For other such hybrid combinations cf. fi-sad, lā-tār, etc.

في صد ( م به المجاه ) Pr sad ( م به عد ) er cent : AA. مدي عد ) المجاه المجاه

fiz ( وبير ) E. = P. شعونه fees (at a school). —

photograph -- عكس E. = P. وونو photograph

--- carpets ورشها .P ( فرش pl. of وروش .AA.

G

galün (گلوی) = P. گلر throat v. Introduction p. 11 cf. Morg Front. 395a.

goloshes.--- كالس ( گلُوش ) E. = P. كالوش

word -- عرف P. عي word --

In P.  $\downarrow$ f means "ritle talk", "gibble-gabble", etc., and is used in that sense in the Caspian Provinces of Persia (more especially in Mazsadaran) \*Gop padan\* to talk".— Yet. cf. Horn, p. 76 § 34, 5.—Lor Phon has not got the word recorded, but 1 find it in Morg Texts p. 311, also in ISI. 529. cf. Psht. gapah. The word must be very old and seems to be directly connected with the verb wid also Morg Front. 254a. cf. also E slang "gab". "guff".

gornici ( المِوْلِ عَلَّمَ اللهِ اللهُ ال

---, bell, gong زنگ (2) (clock و ساعت (1). H. = P ( گريال )

```
gatt (مَّلُوهُ - الْخَاجُ ] H.-Psht = P. مغلوهٔ الله mixed.—Obviously from H مغلوهٔ "coupled; joined, united" (Fallon); "entered into agreement or compact" etc. (Platts) of. also Psht. مع gadd "mixed, mingled", etc (Raverty) of. also Morg-Front. 234b.—
```

даун (MA. کار , E. =P. کار , F. gas, gases —

gādi ( کافی) H. =P. درشکه (R. carriage —From H. کالقی) In P. the word ماری means "a waggon, a cart, a chariot", never "a carriage" —

gādīwān ( گادي وار کالسکه چي عالي عربي وار عالي وار a coachman ---

تَوَاتُونَ عَمِوسٌ ؟ = P. (کَاکُتُر) " P. مِمِوسٌ vicious, restive (of a horse).—Probably from کُلا "time" and كرية (in the neuter sense) " to catch, to stick " کُلا کُلا " one who comes to a stop from time to time".

time'' —
gāhī ( علم عبهوقت - هرگر never: ma ānjā gāhī naraļtum
' I have never been there''.—

" once and again " كاه كاهي " means "once" كاهي " once and again ";

"from time to time".--- عَلَّهُ وَنَدَى وَنَدَى وَنَدَى وَنَدَى وَنَدَى وَنَدَى وَنَدَى وَنَدَى وَنَدَى

jriii», griii» (كالس - كالس ) E. =P. أو كالس الته braces.

—From the obs. E. "gallowes", whether directly or through the medium of H. (I was unable to find such a word either in Platts or Fallon). cf. Iv Rust. 257 "kiliskit, the band, by which the charqat is fixed on the head".

gāmiskot ( گامسکت ) .... eretonne.— ( کا مسکنی ) P. ۲

--- cradle نانو .- P ( گهواره ) cradle نانو

gilkār (گلکار) = P ن mason, builder.-

girang ( ﴿ كُرِنَكَ ﴾ ) P. سنگيس heavy.—Seems to be a parallel form to گرائي.—MorgFront. 254b. has got girang and giran'gi.

gišnīč ( الشنيع) P.= شوبت fennel: gišnīč-ī rūmī = P. جمعوى "dill, parsley".—

gul-i karam (کرم Σ ) = P. کلم کل cauliflower.—The form کرم seems to be older than کلم the word being (according to Horn, p. 6) a Greek loan-word (κράμβη).—

gul šudan (كل شدن = P. خاموش شدن to go out (fire): ātaš

gul šuda " the fire is gone out "- والد كمارش كول ( اك كشون مقادل كولي ) أن كل أن إلى كشون مقادل كولي ( المناس ال

used for burning the tobacco in a hookah; the caput mortum of tobacco left on the tile of a hookah after smokng". For gul \*sudan he gives, however, the meaning "to become manifest, to arrive at the summit of greatness". The last two of the above enamerated secondary meanings for gul given by Steingass point to their H origin, as the water-pipe ("the provided in hookah" in P., nor are say "ball as of charcoal" ever used in Persia for the water-pipe On the other hand, the above

Persia for the water-pipe On the other hand, the above meanings for gul are also recorded by Plat Lts, who gives besides: "gul karañ to extinguish (a caralle or a lamp)"; and "gul homā to be extinguished; to go out (a lamp or a candle)".—That makes me think that there is a close connection between the H. and the K. expressions. Furthermore proof positive for the existence of the word gul in the meaning of "embose" (may be originally gul-i ains "the flowers of the fire", i.e., "the hot coals") would seem to be offered by the word was "gul zun "fire-place in a bath; oven; (turnaco", where the second luk of the compound might be a lightened form of xānu "house" of. also Morg F ront. 2383, 3941.

gurda ( 25,5 ) H.=P & L- 3,45 kidney.

rad ( کیزه ) H.≡P کامة kidney.

The word is of Persian origin but not used in Persia, where its A. equivalent slightly modified ( کُلفه . < کُلوهٔ کُلوهٔ < کُلوهٔ کُلوه

is current. I am not prepared to say, whether the A. word itself is not an early borrowing of Iranian origin.—

gusil kurdan (وانه کودن و درستاندن . P. (کسل کودن) to send; to put on the way.

The expression is obsolete, but occurs in literature, of for example, the Siyasat-Nama (ed by Ch. Schefer, Park 1981)

fer, Paris, 1891) p 73.—Syn. rāi kardan q v. guzaktāndan ( MA. عنور دادی ) = P. عنور دادی

gügird ( کوئرد ) = P. کبرنت (vulg. kirbît and even čirbît) matches — Syn. māčis q.v.—In P. مرائر means only "sulphu".—

-...bullet گلوله .P = ( گوله ) bullet .—

gür kardan ( گور کردس ) == P. فرو کودس to let down; to let in, to drive in:

AA. ملنے دم خود را در ربک گور کردة تخم مي اندازد he locust thrusts its tail into the sand and lays eggs "----

#### r

yarīb ( فقير H. =P. غير poor, indigent.---In P. عربب means only "stranger" and (sometimes also) "strange".--

yauer kardan ( فَتَّت كوهن ، ملحظه كوهن ، P. فرا كوهن ، to consider ; to discuss; to think over.—The A. word pmeans originally "to descend; to enter deep", and, though very current in H. is not used in P.—

γαyr·i hāzır ( غير حاضر ) = P. مائد absent (from sohool, etc.) γαzata ( ΜΑ. غرنه R. = P. ور نامه newspaper.—

رهردار . R. = P. گار (عاز ) R. = P. عاز موردار " poisonous gases". cf. gays.

ېريم . Psht : = P. سرنې درېم. Figade-General.—
The first link of the compound is probably Psht. yundi
"alike, similar, resembling" (Raverty, Morg Voc.
s.v.). For the second link v. under bukksmir The
whole would consequently mean literally something like

yúsil-xāna ( عسلطانه ) H.=P. اطاق حمام bathroom.--

" vice-chief".--

γπ̄ετ̄ ( غوچي ) = P. پرسفوک a swallow. Morg Front. 395 b. gives 'γτετ̄ ( with both short vowels) "a kind of bird".

yūrī ( دَوْرِي - قال H. = P. دَوْرِي - قال a dish.—In P. غروى means "a teapot". H. diotionaries (Fallon, Platts) give the word as P. with the meanings of "dish", "plate".—
Syn. kijās, q.v.

### H

harb-i umūmī ( حرب عمومى ) T. ? =P. جنگ بين المللي The Great War.

الأن - فوراً - حالا . P. الأن - فوراً - حالا . now; directly.—

I find the word in that meaning in the Siyasat-Nām a (Schefer, text) p. 72.—

1

idval(! (الحال)) = P. دخول - داخل شدن entering; entrance: OL. دخول - داخل شدن اجارهٔ انجال "eutrance-ticket".—

The A. word (1V form) implies the idea of an active meaning "to make enter" and could not be used in P. in the neuter sense —

ihtifāt (ماعت - مجلس - [محفل = P. ] obs جماعت - مجلس - [محفل = + احتفال) P. ] ( they make a guthering ", " they assemble in a gathering ".—

ijāzal ( احارت ) = 1. الحارة ) = 1. الحارة ) = 1. الحارة ) = 1. الحارة ) = ijāzat as i or simply ijāzat i " ( you ] allow [ me ] أ " —

It occurs in 'Abdul-Karlm's text p. 37 1.23 and p 38 1.5.—

imhänbuxi (MA. ممكن با = P) ممكن possible. imhänllä ( че الى شلد الله عا ) = P الشاد الله (inhää'alläh) " if God [ so ] willeth ".—

Probably on analogy with مرورد المسال - المقتال .—Seems also sometimes to be a confusion with مشله الله , as there are cases when it is used with the past tense: imsāllā du sāl-us rallu bidum

inglia. mqrīz ( انگوس - انگلس ) H. = P. (انگوس - انگلس English; Englishman.—Cocurs afready m 'A b d u l - K a v l m 's text as انگلسز p. 181 3; p. 34 1 18; p. 36.1 7 (bis) ingrīz v nolīz.

sending.-- ارسال ) = P. اسمال ) sending

--. slate سنک او ج .P = ) ( اسلنٹ ) islayt

nstašan-i rādiyō (OL. استشن رادبو ) = P. ستاصبون تلگراف بدستم P. wireless station —

rēpilāy ( نَجَيْلِي ) = ا' ( سُون ) = ( نَجَيْلِي ) whistle; whistling.—From Psht. بالشيخ shpelæy, dum. يَشْنِي shpelæy, dum. به whistle, a hiss; whistling, hissing "( Kaverty) of also Iv Birl., 340 " selling, splink" and " selfilink". Syn. tala, q.v. išlotri v šlahr.

istarlang (AA. اشعر للك P. و الشعر للك pound sterling.—

--- advertisement اعلان - اعلام . P = ( الشبهار ) advertisement

the (sic all ) = P. all (ittile) information.

information, informing (lit. استعضار P. (اطلاعدهی) information, informing (lit. "the giving of information"): OL. المحمد دارد اطلاعدهی دارد الله

the honour to inform".—This abstract noun, which regularly cours at the beginning of official letters, would seem to presuppose the existence of a compound adjective abstract noun could only be derived. Yet, there is no such compound adjective even in K., not to speak of P., and the word seems to have been specially (and clumsily) coined in quite recent years—

--Italian ايطاليائي .P ( انطالاوي ) Italian

jámā (جمع ) = P. جمع (jam') together; joined; total, etc.

pantari ( جنبري ) H. = P. مقرنم calendar.—Obviously derived from H. جنبر jantra, jantr "an observatory; an astrological or magic diagram, a magic square", etc. ( Platts).—

janawar ( جانور P. جانور jānvar animal ; insect.--

Whether a mere metathesis quantitatis or an amplification of the suffix with a subsequent shortening of the vowel in the initial syllable,—I cannot decide.—

janwarī ( حنوري ) E.=P. ژانويه (žānviya) F. January.--

jarman ( جرصن ) E. = P. (1) المان F. German ; (2) المان F. German y.—

jarmani ( جرمني ) E. =P. (1) الماني (F. Germany ; (2) الماني (Grman.—

It seems with regard to these two words that they were originally integrally borrowed from E. That is to say parman (German) and parmani (German) were at the outset mere transliterations of the respective E. adjective and noun. Very soon, however, the misleading termination-i must have been confused with a Persian adjectival suffix (y\(\frac{3}{2}\text{in}\) is about ) and the meanings of the two words began to alternate, so that at the present time both of these words are used in both senses.—

janrāl) F. General.— ) جنوال E. = P. جونبل

jarra ( عبد ) = P. بادة on foot; walking: ma jarra anadum "I came on foot" - Seems to be connected with the A.

"to drag, to draw, to pull". jastī ( حسنى ) R = P. برني latten brass.—Seemingly from the R Frett " tin " -

rice in husk. - Probably Indian - ملنوك . ا حالي ) عاقة المائة ا jālse ; bad (coin).-- قلب P. عالمي ) false ; bad

means a جانشين .tenant -In P مساحر .P جانشين ) jīnišīn

"locum tenens", "a successor" .--jāydād ( حاداد ) H = P. نيول assignment of land; landed pro-

perty -Also used in Psht., v. Raverty, s.v.

jēl v. jihil. ríhil, jēl ( جول ) = P. حول (jahl) stupidity, ignorance : ilm-u-iíhil "learning and ignorance" (the Amir in his speech at the

inauguration of the memorial of the victory over the Mangals). More commonly jel, of. MorgTexts p. 324 and note 2 on the same page: also MorgVoc. s.v. jel "ignorant".

jim (مسم ) H. = P. حسن (jin) E. twill; twilled cotton; drill (white or drab-coloured)-From the E. "jean" (i.e., " (lenoese cloth ").-

jūdāgāna ( جدادًاه ) ohs. = P مابعده separate; separately.-juyāla (حفاله) T = P. ش gravel. — I find in Bianchi the T. جامل - چاعل " petit caillou ", which seems to be another

form of the same word juwārī ( حواري ) H =P. قرت Indian corn, maize.—cf. Morg

Front. 263a.jūar ( حرمر ) = P. حرمر (jawhar) essence.-

a spider.—From P. عولاة a spider.—From P. عنكبوت a

weaver". Also Paht. ct, also MorgFront. 397b jūlāy ( حولاء ) E. =P. مرائع (žūliya) F. July.--

jûn ( مجر ) E. = P يُوين (źśan) F. June.--

jūr ( حرر ) H. = P. چاق well (of health). v. Introduction, Polite Phrases, p 44. In P. حور means only "equal, alike; assorted", also (as noun) "kind, sort".—From H "--- jor.---

jūra ( عررة ) = P. عبرة pair ; replica.jūrpuraānī ( حور پرسانی ) =P. احوال پرسی asking about health;

greeting.

- jūla (غنج ) H. Peht=P. ندل imitation, substitute.—From H. either directly or through Paht. غرب jutta's (1) "refuse, leavings", etc. (2) "base, false, as coin or gema" etc. (Raverty). In K., however, it is only an antonym of succes, qv.
- jūši ( جوتى ) H. =P. كفش slippers (of Indian make).—

#### ĸ

kadālā ( كوالر ) H. = P. سي رميني potato.—In H. the word seems to have meant originally the esculent root of the plant Arum colocasis ("sweet potato") F. "la batate" or "la patate") and been only later transferred on the ordinary potato.

--- cuffs (of a shirt) سو دست . E. = P. کف ) cuffs

kaldn ( UK ) obs. = P. Typ big, large; great. cf. MorgRep. p. 8 note. cf. T. 376 l. 11; 313 l. 26 For 'Abdul-Karim v. under zurd.

kalān-sāl ( كلان صال نوس مودم .aged, old : AA مُسِنِّ aged, old : AA. كلان صال نوس مودم

kal kurdan ( کل کردس - تراشیدس .P ( کل کردس to shave, lit. "to make hald" —

kuli ( کلت الله badge, order; decoration: کلت ساز "maker of decorations" (on a sign-board in Kabul).

From H. الله kalii'' machine-made; fabricated; contrived; beautiful''.—

kamānak ( کیانگ ) P.....plinth.

kambüt ( کسود ) =P. کسر ooming short, wanting: AA. عبد الله عبد الله عبد الله الله الله و کمود ) در الله الله و کمود ( کسود ) الله الله الله الله الله ( کسود ) الله الله الله ( کسود ) الله الله الله ( کسود ) الله الله ( کسود ) الله (

kamīsār (AA. كمبسر ) R. = P. كمبسر F. commissioner.

حق الزحمت . ( كبيسون - كبيسون - كبيسون الممل (AA. ) جعل الجمل ( commission; per cent. From German.—

kamīšun (ĀA. حق العبل E. = P. عن العبل gommission (as above) kančīnī ( تاعر ) H. =P. تامن dancer: musician.—I find in

'Abdul Karım p. 1061. 7 بنجيني ما يعني رقّامان, from which one can conclude that the word was known, but not currently used, since it needed an explanation.—

karam ( کرم ) = P. کام cabbage, cf. supra gul-i karam.

karā, karāh ( كواله ) = P. كواله hire.---

---. for hire کوایه ئی .P = ( کواهی ) for hire

karaka (کراکش = P. کاراکش = muleteer. cf. MorgTexts, 326.

The word occurs with the same spelling ( کراکش ) in 'Abdul Karım's text p 88 l. 23; p. 103 ll. 12, 14. 15.—

baked", etc. (Raverty). Unless fr. the P. 3/5. "butter"?

karrat ( کرّت ) = P. دفعه - مرتبه time: yak karrat "once", "some time".

kaš kardan ( کشدن ) =P. کشدن bo pull, to drag. kašīdan ( کسوون کودن - معزول کودن ) ان to discharge (from office); to dismiss: يَنْتَةَ az xidmat mikašum " I shall

discharge him from office";
(2) to drive away: AA. . مقدّس خود مقدّس خود نظمین را . . از حاک مقدّس خود به you have driven away the enemy from your scored (mother-] country".—

ket.i (ωξ) = P. to with Syn. hamrā[h]. LorPhon. 189 gives and translates this word as "along with", but with a certain hesitation. Morglexts has it pp 312, 313 and clsewhere, and translates it accordingly. LSI. X, 529 has got the word in the form qate. There is no doubt as regards its meaning (the word is extremely current), but its origin is as dark to me, as it seemed to be to Lori.

mer, A.c. Could there be any connection with the Psht. kat "heap, pile" (Raverty, s.v.), also given Morg-Voc. 'Sas "of unknown etymology" ? katlāk (AA. الالالا) E. = P. الالولاية (katālūg) F. price-list

catalogue katta ( کنم ) H. = P. حقّه thick, coarse.— Psh t. جنة - عقّه (yat —yatta) and عقّه (katta) Raverty, from H ننه kattā

'well-wini, able-bodied, stout, strong, sturdy', etc.
(Platts).—of IvBirj. 340 "kat, katta large, big';
also Morg Shugh 58 and Morg Front, 268 b. katta'ban' grandfather'.

kawk ( کمت ) = P. کمت (kabk) partridge. of. Lor Phon. kauk, 'chikor', " red-legged hill-partridge".—

anteroom. — دالان P الاس كن ) anteroom.

.... kāk (أ.....) E. ≃P. چرب پنبه cork,—

- kāpī ( کایی ) E. = P. کیبه (kupiya) F. copying-pencil.-
- ملنج نکارات زراعت AAA. کارات میرساند the locusts cause [many] kinds of damage to agricultural works ".—For the A plural-ter
  - mination with a Persian word v. Introduction, p. 15–16.  $k\bar{a}rd$  ( کارت E. = P کارت (  $k\bar{a}rt$ ) F. card. —

case recorded as 'kali').

- kārīz (زكارية) = P نقلت aqueduct.—A most concise description of a kārīz can be found in IvBirj. 240 note 1; also BrYear, p. 116, note—
- د منافع ( الأطوس كارنوس كارنوس ) المقاتف cartridge.—Obviously the F. "cartouche", also in Psht. and H, but through what channel ?
- لارخانه , kitchen.-- In P اشير خانه , kitchen.-- In P الرخانه ) means only "mill, factory, workshop" --
- kāški (AA. الشكيع ) P. الشكيخ (kāškī) Õh if! Oh would that happen!—The word الأش in the same meaning is also used in P., but as an exclamation or interjection, that is with out the relative particle of —
- kāwal, kābal (كاب كاول) = P......feather-grass (Agrostis linearis). Probably fr. Psht. كل kabl. cf. also R. kowyl' (probably imported by the Tartars).—
- kaz (كافد ) = P, مدل (kayaz) paper:
- kāz-i xuškī ( كاعد خشكى ) =P. كاعد خشكى "blotting paper":
- #lined paper " كامد خط دار .P كامد راهدار " lined paper " ;
  - \* letter-paper " -- الماه أست .P ( كافد داكي ) letter-paper " --
  - kēlā (كياً) H. =P. مرز plantain, banana; fruit of the Plantago sativa.--
  - kēš ( کیش ) = P. پتر a rug, a blanket.—The origin of the word is doubtful. Morg Front. 399 b. gives the meaning

"shirt" and marks it down as Persian. Steingass gives inter alia "muslin, fine cotton cloth";.... "a fur coat"; a kind of linen garment", and spells the word

karsh I am inclined to think with Ravertv (s.v.) the word to be a Paht corruption of the H. کبسی khes (or khis) "a kind of figured cloth; diaper, damask; -- a sheet or

wrapper of such cloth" (Platts), which probably was or Psht. ليل K'shal " to pull, to draw ".-

(obs ) means انگشت P الکث finger.--In Persian کلک (obs ) "a reed, a reed-pen". Steingass, sv. gives, however, as Persian, kulik "squint-eyed, the little finger". cf. Morg Front. 265 b. "'kilk yull little finger Afgh. Prs. kilk (little) finger ". -

window. Syn. urūsī q.v. دربعه م دبعه ) H ؟ = P. الكسي window. Syn. urūsī q.v. I do not find the word (which is, however, very current. being the only current word for "window" in K.) anywhere and can only think of it as a possible corruption of

the Psht. کرکے karr-ka'i .. "a window, a sally-port, a casement, a wicket, a loop-hole" (Raverty), which is, in its turn a loan-word from H. کمنزکی khirki " a private or back-door; poster-gate; wicket, sally-port; a window, casement; a shutter", etc. (Platts).-

kišlš ( کشنی ) H = P. تاب - دوری dish.—In P. کشنی means only "a boat", whereas in K. an "oval dish" bears that name probably owing to its shape, cf. the E. "vessel" .--

killi ( کنلی ) E. = P. کنای kettle.-kīmiyāwī ( كىمناوى ) = P. كىمنائى (kīmiyāyī) chemical. cf. ītālāwī, tāi lawi. etc.

kikā v. tikā

.-. coat-hanger جاي لناس E −P. = P کوت بند )

koli ( كونسي house -- Fr. H. كونسي koli ( كونسي house -- Fr. H. كونسي house", etc.

kudām ( کدام ) = P. یک (or yā-yi vahdat) some. v. Introduction,

p. 24. In P. كدام is always interrogative and means "which t" \_\_\_

kuland ( علله ) = P. كالله (kulang) mattock, pick-axe —of. Morg Front, 266a who gives it as ka'land.

bubléa, bubléa (ap.k' - ap.k') H. = P.... a cake, a biscuit.
From H. ap.k' bulléa, which seems to have originally had
the meaning of "an orb, a dise", and to have received
only later that of a "round cake". cf. BrDial. 322
"ap.k' bread mixed with oil and sugar, and made into
the form of dises"; cf. R. kulië (prob. through the
Tartara).

kulfī ( کلفی ) H. ? = P. . . . . sauce-bost, sauce-bowl.

kunayn ( کنبن ) E. = P. گنگنه (gingina) F. quinine.—

kunjāra, kunjāla (ا كنجاله - كنجاله - كنجاله الم egs; remains of anything squeezed; oil-cako.—Whether from H. كنجال kunjāl "green soum formed on stagnant water" (Platts) الم

kuri ( کونی ) = P..... a tunic; a short coat; a jacket.— W. I vanow was so kind as to inform me (by letter) that the word is quite current in Khorasan and seems to be a corruption of برویی "Kurdish".—

kūčī ( كوچرى ) = P. كوچرى T. nomad.--

- be some connection between this word and the P. 35 "winding up; stitching, basting", etc.—
- معارت room: OL (وقلة) اطاق (P) خاصه خانه (H = P () (وقله) است است خواني ورارت داخلة كه داراي كرده هاى معمددي است storry of the Ministry of Interior, which contains numerous rooms " H. نيخ خان.
- kūya ( کوبه ) H. =P. بنت moth, moth-worm.—Prob. from H.

### L

### lambar v nambar.

- lambidad (ייבוע it of all Probably connected with (if not directly derived from) Psh t בינוער לייבוע ו hambidad "to wash, to bathe, to dip, to soak" (Raverty). cf. however H. lamb dalha" to drop (or let fall) a perpendicular (on) "(Plat tis).—
- langūtu (انگونه ) H. = P. مندىل عمامه turban.—Fr. H. انگونه ) turban.—Fr. H. انگونه )
- lapp (¬¬) Psht.-H. = P. no equivalent A double handful—The word seems to be Indian and to have crept into K. through the channel of Psht. --Steing ass s.v. gives it as Persian (at least he does not mark it otherwase) and explains it as "a large mouthful".—cf along "Afghan Weights and Measures" JASB, vol. XXIV. 1928, No. 4p. 422.—
- latkar ( النكر) obs. = P. والنكر army—Occurs, of course, in classical literature, colloquially, in P. however, only in titles (logab) of [mittary] officers, like أو names of tunction like المتعارضة "army comptroller", and such like formations—Occurs severally in Muhammad Amin's text 'T. 294 ll. 3, 22; 306 l. 36; 362 ll. 2, 4, 16; 363 ll. 2], le.
- lat kardan ( الت كودس ) H. = P. كوكت زفرس to beat, to thrash (somebody).—Fr. H. الت كودس a kick " (Platts).
- but.--- لاكن لاكن . Dbs. = P. لاكن but.---

- laymbū (ليمبو ) = P. ليمو (līmū) lemon,—seems to be merely a corruption of its P. equivalent.
- lāmpā R. lamp. لاميا ) E = P لامي ا
- layr ( לאני) E. =P. לאני train.—A corruption of the E. "rail" with the usual transposition of the two liquidae; also rayl, q.v.; also qatār i āhin q v.
- لَّافِطَةُ (AA. اللهِ اللهِ (foreibly.—Such hybrid compounds with an A. particle, as the first, and P noun, as the second link of the combination, are utterly inadmissible in P.—
- lēāz v. lihāz
- الموامسر) = P. سوني أول Major-General.—The first lmk of the compound seems to be the A "لواء "banner" For the second link v supra bulūkmišr.
  - liberal: ( لبوال Liberal: AA. آزادی خوا یه البوال Liberal: AA. البوال Liberals ". " the liberal party
  - النام (النام النام الن
  - Rieak ( لاسک) = P. وست برّه نو دلی صاف الله skin of an unborn lamb without ourls of light. Whether in any way connected with الله "to lack", or contamination of الله smooth " with that verh?
- المنافقة ال
  - luyat ( لفت ) obs. = P. المن ; language: also in plur. luyāt ( لفات )

"languages". In P. the A. لغت means "a word", and its plur. لغات means "a dictionary".—

الك ) = P. كلفت thick.--

lukī ( , C ) = P. Jak thickness .-

lund (غند) H. =P. حاكف a sodomite-pander.—Probably from

lurrî ( لرَّي ) E = P. كاميون F motor-lorry.

lūč v. luč.

lūčak (وغي P. وغي vagabond, hoolgan.—Probably a diminutive of the preceding.—

## M

ma, man ( مدن ) = P. مرن (man) I -

Both forms of the personal pronoun of the lat person (v. Introduction, p. 21 are currently heard, with that distinction that the illiterate part of the population always drops the final -n, wherear the educated classes, although trying to use the "literary" form, drop the -n occasionally.

madad (مدد ) obs. =P کمک help —

makāra ( مكارة س) R. = P. مارار عام a yearly fair: AA. مكارة سن الطلبي he unternational yearly fair at Tashkent ".-- ".-- makfi ( عكف ) = P. مكفي sufficiency: adequate supply:

NN. بقدر مکنی = P. بقدر مکنی in sufficient quantities".— In the K. expression ه امکنی an adjective determining the word ندر, which is taken here in its original value of an

ordinary noun, whereas in P. the expression مقدر plays the tole of a preposition and governs the gent, case.—

in action ( مناسب ) = P, محربه in action ( مناسب ) in applied to Mulammadan theological schools, which results in such misioners منا المحافظة ( "the fwriting-] school of agriculture ": مكنت حفرن "the fwriting-jachool of law" ( "the fwriting-jachool of law").

mdnā ( منع ) = P. منع (man') prohibition, restriction.—

mangas (ا مگس P. مگس fly ---

mansabdar (منصيد ) H. =P. ساهت military officer.

Probably under the influence of H. (or vice-versà). cf. also afvar.—

marātaba, marātiba [?] (مراتبه P عرتبه (martaba) obs. or will you come, when " يک مواتبه بايي آدارة بيانند time: OL دمعه convenient, to this Office" -The form does not seem to exist at all in A., even were it to be read murataba (masdar of the III form). It may be added here in parenthesis that in P. the expression مكمرتمه does not mean, as in K., "once", but means "all at once; auddenly". In all probability, the word ought to be read maratiba (although it is pronounced in current speech" marataba and would be then the broken A. plural from used in the meaning of a singular (v. Introduction, p. 16) with an A. indefinite article ( 5 -- ) tacked on to it. I am strengthened in that belief by the numerous instances of the form مراتب occurring in 'Abdul-Karim's text in the meaning of Sing, viz: p 43 l. 5: : p. 47 1. 20 معدة بكبراتب : p. 43 1. 22 مر معتة دو صراتب

Karim's text in the meaning of Sing, vis: p 43 1, 5: q 7 1, 20: q 7 1, 20: q 7 q 20 q 21 q 22 q 23 q 24 q 24 q 26 q 26 q 26 q 27 q 27 q 28 q 29 q 29 q 29 q 20 q 21 q 21 q 21 q 22 q 23 q 24 q 25 q 26 q 26 q 26 q 26 q 26 q 27 q 28 q 29 q 20 20 q 20 20 q 20

marina (مرنة ) = P..... ? merino.—

markab ( نرم) = ( او المر) donkey.—The word occurs in literature in the general meaning of "a mount". cf., however, the story of the "Selling of the Ass "in the M at his ne vi (B:bay ed. 1318, p. 116 l. 17): مرکب خود بود و در آخر کشید: where, it would seem, the word is used rather in the sense of "donkey" than "mount".— massila (tor building materials (tor building purposes, etc.)—Should the word be used in P. (which I have never heard), it would naturally be pronounced correctly "massily".

maska ( مسكه ) H. = P. مسكة butter.—of, also I vT a b. p. 11 note.

maˈkür ( مشكود) =P. مشكر grateful: maˈkūr-am "I thank you".—In P. مشكور, if ever used, could only mean "rewarded; compensated, indemnified",

never "grateful".—
mawāziāt (OL. مواضع )=P. مواضع places. cf. for such doubleplural formations arākin, etc., also Introduction p. 16.

mawri ( عروبی) =P. مروبی and obs. مروبی ' of Merv''.--cf. Aw.

mawati ( عوصول ) = P. واصل arrived; reached; received:

AA مرصول کودنده است 'has been received''.—

mayda (مددة) H. = P. زيز - هره reduced to powder; fine pounded; fine-ground: art-i mayda ( أصدة) and tar-mayda ( أبرمدة) probably a mere transposition of the

preceding) "flour; wheat flour; white flour".—

maukrū kup ( منکریک ) E. = P. منکریک microscope.—

maynifaykčar (AA منو اكتور E. = P.) منو اكتور (manifāktür) F.-R

mazdār ( (מרפני ) obs. = P אל workman.—Properly muzdār, i.e. יי "remuneration" und suffix - ir <-rar < āvar, lit. "one [whose services are] remunerated" or "one who gets renuneration", cf. Morg Front. 274 b., where it is given in both forms. I have, however, not heard the correct form with - w. in Kave, however, not heard the

In P. ماس means only "between" (for place) and "during" (for time), of supra bayn,—

- matches. Syn. gügird q v. کبریت E. = P. کبریت
- mādanī ( فارتى = P. فارتى in metal; made of metal In P. فارتى (ma'danī) means "relative to mines.—to mining".—

اس مطابایی شان مأجور ( مbliged: AA. ) منون P. ( مُأَجُور ) mājūr ( مَأَجُور ) P. ( مَأَجُور ) mājūr ( ممثور بودة است " these gifts granted by her (the Queen) [ were received ] with gratitude and thankfulness ".—In

P. مأجور could mean (like maškur q.v.) only "recompensed, paid, remunerated".—

māt ( ( اساله ) = P. اسباله - بنامه materials; goods.—In P. الله by itself means "a mule" (sometimes also "an ass" in the idiom of donkey-drivers), and has the meaning of "goods" only in compounds like! بمال الشجاء

mālam (1...) = P. موهم (marham) plaster.—i.e. marham > malham > mālam, with the falling out of the -h- and the resulting compensatory lengthening (v. Introduction p. 7-9).—

mālaq ( مملق ) = P. مملق (mu'allaq) somersault.—Whether any connection with malak "movement", etc. Morg Front. 272 a, q v. ?

māli (مالی) H. ? = P. مثال bearer, porter. Cf. Morg-Front. 400 a. mālta v. māla

māmā (انی ا H. = P. هان maternal uncle.—cf. Morg Front. 400 b.; Morg Toxts 310, who takes it to be Prs., but

v. Platts, s.v. In P. ماما means only 'midwife".-māmūlī (معبراي ) = P. مادرس مستعمل old; worn out --In

P. معبولى (ma'mūlī) means "usual, customary".--

mānda ( مانده ) = P. خسته tired. v. Introduction, p. 36.

māndan ( ماندن ) = P. گذاشتن to leave; to put, to place.—For details v. Introduction, p. 35-36.

māraļal-i ( متربعه ) H. = P. متربط or مُعربت through the medium of; care of; by means of.—Also used with the preposition ba-. Probably borrowed from H. or vice versă.

mārĉ ( ماري ) E. = P. من (mārs) F. March,

māsūl ( تعديد عق - ماليات P. تعديد tex; toll, duty: excise:--

māsūl-i gumruk = P. خق کمر " custom-duty"; māsūl-i afyūn = P. تعديد نوياك " excise on opium".—

- māyān ( مايلي ) = P. ماهاه we (for many persons). v. Introduction, p. 21-22.
- mayyat- (معتت على ) = P در ركات در حدمت با
  - --. " with His Majesty " معبّت ذات شاعانه AA
- māz-i barāy-ı (معض برای ) = P. (either) معض برای for: AA. معض برای بیصله این مطلب 'in order to settle this affair'.--
- mēla, mīla (ملله) H. =P. ازار a fair.—cf. MorgFront.
- nēmān (مهماندار) = P. (مهمانه) (muhmān) guest: mēmāndar (مهماندار) "host, an officer appointed to act as host to foreign representatives".—cf. Morg Front. 272a and 400b.
- mīr ( مبر ) obs. = P. عشق معتت love, fondness.--
- mērbanī ( ميرناني ) obs. = P. مرحمت القنات kindness.--
- mētar (معنر) H. = P کوت کش د کتّاس ) H. = P معنر and کوت کش night-workman ; scavenger; sweeper.—The word musālih is, however, also largely used, q.v.
- mewa (عموة ) = P. مدوة (mivi) fruit .-- cf. Introduction, p. 5.
- mid-ı az ( ا مثل او P.= الله like . . .: misl-i azu = P. مثل او "like him"
  - mister. —A polite form of address, when speaking to artisans, cooks, etc. Borrowed from Port., mestre probably through the medium of H. Syn.
  - milang ( منتگ ) E.-R. = P. جماعت مجلس meeting.--
- mim (aic'..... i, H.=P., jik lady: du mim az sijörat-i Birtöniyä ömada'' two ladies from the British Legation have come''. Corrupted abbr. of the Anglo-Indian ''memsalib''.

- mīzān ( ميزان ) = P. جمع total : OL. مرزان كلّ (mīzān -i kull) = P. means "[exact]" جمع كل measure" .--
- mudāzalat ( مداخلت ) = P. مداخلة (mudāzala) concerning oneself with something; interfering; meddling,-

director. . — P. رئيس director.

The word مدير, though understood in Persia, is never used in P. and seems to have been borrowed from Turkey where it is a current official term in that meaning .-

muhasril ( محصّل ) = P خلنه student. - Syn. tälibu-l-ilm q.v.

nl. muhassilīn( معملي ) = P. طلاب students.--

muharaba-i azīm (محاربة عظيم ) = P. جنگ بين المللي the Great War .- Syn. harb-i umumi, q.v. It is obvious that, contrary, to P., no definite expression to denote the "Great War" has been established in K. The expression given here seems to be borrowed from T .-

muin ( معين ) = P. معاون assistant.—

mukarraran (AA. أمكر ) = P. مكر repeatedly. cf. Introduction, p. 37-38.

mumkina ( ممكنة ) = P. امكان possibility : ba-qadr-i mumkina as far as possible".-The "حنى الأمكل P يقدر ممكنة) K. word is naturally an adjective, and the construction is lit. "to the degree possible". cf. supra makfi.

murč ( مريج ) H. = P. فلفل pepper.--

sweeper; کرد کش or کرت کش - کّناس P. (مصالیر) or scavenger; night-workman .- Syn. mētar q.v. The termination -ih is clearly pronounced, probably in order to avoid confusion with masāla ( مصالي ), v. supra.

mušār ilayhi mazkūr (مشار النه مذكور ) =P. (either) مشار النه النه مذكور : the above-named مدكور

so that the " تا مشار اليه مذكور به نقشه ها علم آوردة الي .OL above-named, having acquainted himself with the plans,

....." etc.

Such and similar pleonastical expressions (cf. amrāh-i bā, baray-i az, māz-i az, etc.) are very current, and cannot always be attributed (as probably is the case here) to an incomplete understanding of the exact meaning of the A. expression used .--

mušunk ( مشنک ) عاش green peas.—

mularajım (sic') = P. مرحه (mularjım) interpreter, translator.— More often, however, larjumān, q.v.

muwaqqat ( مَوَّدَ ) = P. مَوْدَت temporary —

muxiusurun (أ صخدص ) = P. (orther) مخدص (orther) معرف (orther) معرف (orther) more seldom أخصارًا in brief; in short; by way of abbreviation.—

 $m\ddot{u}$  ( مولی ) H. = P. (1) سول horse-radish ; (2) نوبچه radish.— Same in Psh t.

mani' ( مون ) H = P......chopped rope (used for making a kind of coment for building purposes).—

mār (مرر) obs. = P مورخه ot.—Although widely used in literature (cf. Sa dl پائی مانخ موروی etc.) the word is not used colloquially by Persians, and would not be even understood, if so used?

mur ( ,400 ) = P. ,400 (muhr) seal .--

murkan ( عبر كبي ) = P. حكّاك engraver; dye-sinker.--

mūsīca (عرستجه) H. = P. فعرى - فاخته turtle-dove.—Syn.

 $m\bar{u}$  (مونو) (E. = P. أُنو ميل ۴. motor-car : مونوكار هدا سونو) "this motor-car" (on a licence).—

mutarrān : ابرمبيلجي الموبرزان motor-driver.—

The first of these two expressions is a literal translation of the E. term, its second link being the Imp. of the verb

to drive". There occurs, however, even the expression AA. مونر دوانول mūtar-dirāywar, which is a mere transliteration of the two E. words.—

mūzu (قروة) obs. = P. چاکهه T. riding-boots.—

mitziκa ( مورنكة ) R. = P. مورنك F. music; orchestra, band.--

. . .

nabad ( '.... )= P. w felt.—I have never come across the word in writing.

nayz ( مار ) = P. خاب pure, fine, elegant: yak nayz ādam būd "he was a fine man". Cf. Iv Tab. p. 11;

- Iv Birj. 341. The word is not used in P., but can be traced in literature: المواقعة المراوية "I saw an assembly elegant and brilliant" (Hā ti f of Isfahan, Tarjrband, 3rd band, 2nd verse).—
- nal ( لل ) H. = P. الراه , pipe: nal-i aw "water-pipe" (for bringing water into houses).—From H.—Skr. nala, v. Platts s.v.
- numra) F. number. نموة E. = P. نموة (numra) F. number.
- ranvagea ( واسه ) = P. المرزاوة بسرزاه ) = P. المرزاوة بسرزاه ) أن (obs.) grandohild.

  "A bdul -K artm has got abij in his text (once), but I am unable to retrieve my reference to page and line without perusing once more the greater part of his book, so I am leaving it at that of. MorgTersts, 310 note; MorgFront. 277 b; 403a; MorgShugh. 61, and, more especially. MorgVoc.54...
- nādan ( باد الله ) obs. =P. الافتان place, to put: binā da sar-i mayz "put [it] on the table". of, also Iv Bir J. 265 l. 2 and note I on the same page.—Syn. māndan q.v.
  - nāib-nālār ( اميو ثومان ) = P اميو ثومان General. nāibu-l-ukūma ( نائب الحكومة ) = P فرمالقوما
  - In P. النب الحكومة means "Vice-Governor".— هَوَإِنَّهُ الْمِورِ) H. = P. ناخوش unwell.—cf. MorgFront. 276a: 402a: Morg Shugh, 61.
  - nāk (خاك) = P. بيالا pear.—cf. MorgFront. 276a; Morg-Shugh. 61; Raverty, s.v.
- nāl ( نبال ) = P. نبال (nihāl) young plant; sapling (not "tree" as LorPhon. 204b); of. MorgFront. 275b.
- nālat (5.....) = P. لعنت (la'nat) curse.—cf. MorgFront. 402s. of. padarnālat in the Introduction, p. 46 and s.v.
  - $n\bar{a}m$  ( ii) obs. = P. יים, name:  $n\bar{a}m$   $m\bar{a}ndan$  "to give a name; to name" v. Introduction, p. 35.
  - nām-nēk ( نام نيک ) =P. مامي famous; honourable.--
  - nāma-nigār (نامه نگار ) = P. ونايع نگار correspondent (of a newspaper).—
- nā-mardak ( نامردک ) = P. نامرد (lit. "unmanly") a contented cuckold; a pimp; a pander.—A term of gross abuse in both languages, which certainly does not mean merely

"Unmensch, Taugenichts", as Salemann and Shukovski, Persische Grammatik p. 89 § 79. (Porta Linguarum Orientalium).

nān (مِنْ = P. مِنْ food.—Naturally also used to denote "bread", as in P.

... a stream; a rivulet.— حوی-(nahr) نمر P بير ) = P موی-(nahr) نمر

More often nār-i āw = P. جرى آب "a stream". nā-rāz ( ناراض ) = P. باراض ( nā-rāz ز ) dissatisfied, displeased.—

nā-rāz ( ناراض ) = P. ناراض (Ma-raz) dissausitet, displosect. nāryāl ( نارانا ) H. = P. نارگنال H. cocoanut.—Both forms are of course Indian.

nāēpātī (ناشپاني) H = P الله a pear; (metaphor. also) vulva - cf. Lor Phon. 189a; Morg Front. 277b.

mēk, nēkō (سک ، بیکر ) obs. = P. خوب good.

niswār ( יביילי ) H. = P. ולאנג snuff.—The correct form is probably nā wār (from H. nās "snuff"), as given by Raverty, sv., who also records the lightened form naswār. But, I have always heard niswār in Kabul.—

nimeār-i bīnī ( سوار سنى ) = P same as the preceding.--

niwoār.idān (نسواز ده من ) = P. no equivalent, snuff-tobacco mixed with lime for chewing (a habit very current among the lower classes in Afghanistan).—

niswār kardan metaphor "to die".-

mīlum ( سلم ) H = P. بافوت كنود sapphire.-nugra-ābī ( سفوة آبي ) = P ( الفوة آبي ) blue ---

nut, (vulg ) lut ( لط - نظ ) E. = P. اسكناس R. hank-note.--

nuwambar ( بوامبر E = P ) وامبر (nuwāmbar) F. November.—

note (diplomatic) — The word مادداشت . ۱۶ = ۱۶ نوطه ۱۸ مناه داشت ، ۱۶ باد داشت

#### P

padar-kulān, bāba-kulan ( بان كاني - بحور كاني ) P. عنه grandfi.ther.—cf. MorgTexts, 310, note, who has, however, only padarkulān Hout Soh has got s.v. "bātud-kāl, Grussvater", as Amarli and Zenganeh Kurdish.—

plan; map. — بقشه P. = P ( طان ) P. = P

palās ( ويالي ) E. = P. الأز pincers; phers.—Corr. of the E. "pliers".—

palästar-simant ( بالسنر سيمنت ) E. =P. سمند (samand) cement-

palla-yi darwāza ( الله درر H. =P. ) لينّا دروازة fold of a door; leaf of a door.—From H. pallā.—

palian ( باتاليون F. battalion.—Same also in Psht., of. Raverty s.v. Probably a confusion of the E. "platoon" and "battalion". Is supposed to be a body of 1,000 men. of. Morg Front. 2790.

pančar (پنچر ) E. = P. إبنچر (punčur) E. puncture (of a motorcar tyre).—

panja ( ينجه ) = P. چنگال fork.—

panj-kayk ( پنچ کنٹ ) E. = P. . . . . . . . pancake.—

panj-sad ( پنے صد ) =P. پانصد five hundred.---

pansil (بنيل E. =P. مداد pencil.--

paraxřa, paraxša, paraxta ( برخته - پرخشه - پرخشه ) = P. قاكهٔ ازّه P. قرائه - برخته - پرخشه - sawdust : wood-shavings.---

parī pūm ( روغون داغ كن - تاوة - طاوة - طاوة - طاوة ) E. = P. وغون داغ كن - تاوة - طاوة - طاوة - طاوة الله ) frying pan.—Also puli pūn.

pariaw ( إبرتاب = P. (Imp.) علاما طعار but down!—The word seems to be anyhow an Imp and to point to some lost verb

partiflan "to put (to furn?) down".—

It is difficult to say, whether there is any real connection
between our word and the P part [Audan] "to get dropped,
lost" (which Lor P hon 183a considers to be "dialectic")
unless the latter is a mere abhreviation of our word.
As has been eaid, I have always heard it used as an
Imperative: "throw [it] down!, [ste got]

Its possible (if not merely outward) connection with the P. partāb ( برنك ) "bow-shot; arrow; ray (of the sun)" is also not clear.—cf. Iv Birj. 342.—Iv Rust 257.—

parwā nīst (پروا نبست ) =P. عببی ندارد there is no harm; no fear.—cf. Morg Front. 28la —

pasān (پس آن - پسان ) = P. عد از آن after that.-

pasāpūrt ( پساپورت ) E. = P. مدکره passport.—But also پاس پارورت ) E. = P. پاس بورخ passport.—But also پاس بورت (pāṣpūrt). Both forms occur in the headings of passports, visas, eto.

: after پی - عقب .P = ( پسِ ) =P

pas-i ū raftum "I went to fetch him"; pas-i kār-i xud "[to attend] to one's (or his) own business".—

patnūs ( يطنوس ) R. = P. سينى tray.-

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pawdar ( بودر ) E. =P. اروت [gun·] powder.--
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pazta ( يغني ) = P. منب cotton ; cotton-wool -

produce : مواد . P = ( سداوار ) produce

it is of great " برای نعومه بنداوار افغانستان بسیار کمک منکند .AA help for [establishing] an estimate of the productivity of Afghanistan"; the raw materials produced " مواد بنداوار افغانستان

ın Afghanistan ".to measure.-- اندازة گوفس P. بىمائش كودن to measure.--

guard; watch; کشنکچی - کشنگ - فراول .P. ) obs. = P watchman .- cf. Morg Front. 280 b. Unknown in P .-

paysa ( بيسة ) H. = P. بول (1) name of the smallest coin (1/60 of a Kabuli rupee); (2) money.—cf. my "Afghan Weights and Measures" JASB, Vol. XXIV, 1928 No. 4, p. 424; also Morg Front. 281 b --

payzār (ببزار ) = P. کفش slippers; footwear.--- An abridgment of the obs. الى الوار lit. " tool for feet ".--

payzāra ( ايم أرة ) = P..... cornice —

pazīrānīdan ( بقبول مجبور كردن P. عبول مجبور كردن to make accept; to force upon.—Syn qabūlānīdan, q.v.

pā-bar-jā (با برحا ) = P. معتبر respectable.—Lit. " having the foot on the place", i.e. "firmly established" -

pāytak (أ .....) Psht. = P. فاخته (fākhta) turtle-dove --the miller's fee (for grinding مرد آسا .) = P مرد آسا

razor.--- of. Morg Front. (ماكي) H. = P بنغ دلاكي or بنغ دلاكي 403 b

pālak ( بالك ) H. = P. استناج spinach. - From H., v. Platts,

 $p\overline{a}lidan$  (پالیدن - بی چیزی گشدن .P. (پالیدن to search, to look for . mēpālum "I shall look (for it)". Does not exist in P. Morg Front 279 b marks it down as Ind., but gives it with a short -a -: " pal- . pa'li- to walk about (gaštan) ' ---

policy. -- بالسي P. = P. مسلك policy. --

pālū (پهلو) = P. پهلو) (pahlū) side.—of. "palune" in 1 v Bir]. 283 No 38, also 1 bid . 248, last paragraph. With regard to the incremental final -n cf. Introduction, pp. 10-12.

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pān ( پين ) = P. پين (pahn) broad, wide cf. Horn, 34.—
pāntar (بينتر) comp. degree of the preceding.—
pānux (AA. جواب obs = P. چواب answer, reply.—
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= answer, reply. جوات . enswer, reply. جوات . enswer, reply. تقلدان عقالة . E. = P. ماتلد . trousers. — cf. I

pādān ( پاتلون ) E. = P. شلوار - شالوار trousers.—cf. Morg Front. 405a.

مرون بانه ... بانخت المعربة (مهاتفقا : AA. فرون بانه الخت ) عام pāgutazi مرزان بانخت السربا "m Vienna, the capital of Austria "..." نخت أسربا به pāgira (بان عام pāgira below ; down, downwards ; lower.—Both forms oceur mdiseriminately in 'Abdul-

A arım's text: p. 52 l. 18: منفور بابايل چاه ممكود but on p. 73 l. 6: منفور بابايل به سال مس آب كيفران (از ونقه بوند ف and again p 105 l. 13: منافرات — d o not find pāyās in Md. A min's text, where pāyās occurs twice: T 270 l. 9 and 305 l. 33-34 (note)—In K., however, only pāyās is used, which, in its turn, is entirely unknown in P.—

 $par{a}y$ -gurīzī ( AA. يابى گريزى ) = P. گريزنا (gurīz- $par{a}$ ) fleeting, unstable —

 $p\tilde{e}\tilde{s}$  ( سش ) = P. بنس ( $p\tilde{s}$ ) before.—And yet  $p\tilde{s}\tilde{s}\tilde{n}$ , q v.

 $pk\delta ar{a}w\;kardan\;($ پیشاب کودن اول کردن - بول کودن ) H. =P. ادرار کودن to pass urine -

ب H. = P. prevention, foresight (پیش بندی ) H. = P. به prevention, foresight چه برای بنش بندی وفوعات آننده
AA. به برای بنصلهٔ وافعات ساغه و چه برای بنش بندی وفوعات آننده
"both in order to settle the previous happenings and to

prevent the [occurrence of any ] further incidents" — In P. بنش بندي could naturally be understood only as an

adjective from "بین نگنده دار هر فسم "apron" بین نگنده دار هر فسم "pin ( سنجاق E. = P. ( بین ) any kind of pins with glass-heads"—

pinjāh (بنجاد ) = P. بنجاد (panjāh) fifty.—

pirān v. pīrān.

pišak v. pišak.

pišk (پشک) =P. ويشک lot (-drawing, in connection with military service).—The word کثن is used in P. in a similar meaning, but only by children in certain games requiring the drawing of lots.—of. also Morg Front. 282a.—

piyāla ( يبالغ ) obs. =P. نجاس tea-cup; coffee-cup.—In P. the obs. ياله means "wine-cup", if anything.—

pīrān, pirān ( پيراهن - پيرهن - پيراهن ) = P. پيراهن (pīrāhan) shirt.—

pāšat, pišat (بشکت ، بشکت) =P., when speaking to small children, the cat is sometimes referred to as شي (pāšā) or بشر بيش بش بش (pāšaš), i.e. "Pussy". One also calls a cet in P. by means of reveating the sound "vāš-

piè" = E "puss-puss".—
cf. Iv Kurd. p. 231; "pesing'; Iv Tab p. 11 note بيوشت Geig. 356. Gil. piča-māde "die weibl. Katze";
Lorf'sht. pp 206, 267a and 354 مشر pishk, whereas

Lorfsht. pp 206, 207a and 354 as jump jishki, whereas Ravotty, sv. and Vaughan s.v., have only pishki, Lorfhon 183 b. has got pusiki, and 198 a pusiki, Morg Front 282 a hav prisak. The word seems thus to have, both m K. and Psht. (I omit here the variants of Kurd. forms of the word recorded by HoutSch p. 56) forms. in which the quality and quantity of the vowel-sounds seems to be of an oscillating character.

pišin ( بيشين ) = P عصرى in the afternoon. Also namāz-i pišin (or simply pišin) = P. مارعصر "afternoon-prayer".—But بارعصر

pasta ( بوسنة ) = P. بستان | Post: idāra-ı posta ( بستان ) = P ( بستان ) = P ( بستانه ) " Post-Office".—Syn. vulg. dāk, q.v.— puf kardan ( بعث کردر ) = P ( بعث کردر ) + to blow, to blow out

(a light) --punduk ( ننځک ) Psht. = P. عنچه flower-bud; (metaph.)

pudendum of a young grl.—Prob. fr. Psh t. pandūk.—
purōyrām ( יעפ פראה ) E. = P. יעפ אראר (purūgrām) program.—Also

an A. plural-form from the same: AA. مروضواصات puroyrāmāt "programs, schemes, plans". pura (crroneously also) para ( كامد ) = P. كامد completely,

fully.— بالرجة ( بورة ) H. = P عدد الرجة purca ( بورة ) H. = P عدد الرجة الم

puece; scrap; bit, chip.— باند ( ست ) H. = ا مارچه ا ا ا المرد ) المند after: pušlaš mērūm ( پشتش مبروم ) ا ann going to fetch him ".—Syn. pas-i. q.v.

pul (غن عا) = P. وينه hudden, concealed: put kardan "to hide to put by".—From Psh t بي مستول الماء ال

to put by".—From Ps h t. به put "hid, hidden ".—
ρυτικής ( رودس ) oha. = P. نحدقی و examining, studying
(a question);—

AA. نژوهش احوال ملّت ' an enquiry in the circumstances of the nation ' - "

pūda ( نودة ) = P بوسنده rotting, rotten. Both Steingass and Raverty give it as Persian, but I have not heard it

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in P., and the word is certainly not a literary one.— of. Iv Birj. 342 "pidi (= LP. pusida ) rotten".—
pūndādan (عبريدي ) pūndādan (عبريدي ) pūndādan بنيول (بين و الله عنه pūndādan) بنيول pūndādala (بينول ) pūndādala (ba well".—
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pūpak ( وبريك ) Psht. = P. منظوله a tuft, a tassel.—Prob. fr.
Psht. بويكة pūpaka'h "a bump, a swelling, a protuberance".—

pūšāk ( عربوشاک ) =P. لناس elothes, elothing. pūlaynd (AA. نولبند ) E. = P. لمسنان Poland. pūra v. pura.

Q.

qablibarin (AA. من فبل or فبل از اس before ; before that.—

qabūlānīdān ( نمولايدر ) = الانمجبور كري to make accept.— v Introduction, p 32. Syn. pazīrānīdan, q.v.

qalamī ( نامى) = P. خَلِّي = manuscript : kitāb- i qalamī "manuscript", as opposed to كناب چهايي (kitāb- i čihāpī) " a printed book".—

ganāwīz ( نناوت ) ≃ P.....a kind of sılk cloth.--

gáraz ( قَرَضَ ) = P. فرض (garz) loan, debt.-

garican ( قربنا ) =P. (either) فربنا (or) نقربنا (tho lattor with an iṣāfa) nearly; almost; approximately: AA. قرببا هشت " nearly 800 men".—

qaryadār (قربغداز ) =P. کدخدا "alderman"; chief of a village.—

qátal ( نَسْل ) =P. نَسْل (gatl) murder.—v. Introduction, p. 14. qatār-i āhīn ( ترين راء آهن ) ح انرين or نرين راء آهن ترين راء آهن نرين راء آهن با

train. lit. "iron-convoy". Syn, layr, q.v.

to promise : فول دادن P. فولانندن ) to promise

AA. "they were unable to promise". of also supra qabūlānīdan. v. Introduction, p 32.

qayza ( تبره P. أ. ä.P. ( تبره horse-bit; bridle. cf. Ps h t. ) و "watering-bridle" (Raverty, s.v.) (=P. دهنهٔ اَسخرری).

--.carpet قالى .P = ( فالبس ) qālin

agāq (سفّت کردة - خشک کُّ تردة ) = P. هنگ کُّ تردة (dried ; hardened, made stiff : gwði-i qāq = P. گرشت بغ شده : rozen meat "; sham-i qāq = P. شنگ "dried bread "; biscuit;

qimat ( تست ع = [. لئست dear, expensive: i as qimat as ( انست است this horse costs much,—is expensive".—One of the many instances of the so current in K. use of a noun in the meaning of an addective.—

qulāt ( تَا يَّ T. = P. مَل fathom. cf. my "Afghan Weights and Measures" p. 421.

a plough : گاو آهن ۱۰ = ( فلده ) a plough

qulba kašīdan = P "شَعْم زدن to plough, to till ".---

In P. wi means "a furrow [made by the plough]", not the "plough", in spite of Steingass, sv. cf. also Lor-Phon 176b "qalwā, plough", etc.—

gurūt ( قروت ) T. = P. کشک curds.—cf. Morg Front . 267a.

#### R

--- registered (letter). سعارشی E. = P ( رجستری registered (letter).---

rang (ئونگ) = P. (1) مركّب ink; (2) واكس R. boot-polish (for the latter also rang-i būt).—

---.sick : ill. مريض obs. = P. ربجور ) ranjūr

rasidāt (سيدات تلگرامات : P. احسد ، رسندها = P. (مبيدات تلگرامات : yeon's book of the Telegraph-Office ".

The P. word out itself in the above meaning might be, for all we know, a mere adaptation (or transliteration) of the E "receipt"—

rawanda ( عارم ) = P. عارم going; departing; directing oneself:—

OL. عارم (sic!) هواناز روندهٔ براسم (sic!) هواناز روندهٔ براسم "airmen going to France

rawāk (واک) = P. کشو drawer (of a desk, of a chest of drawers).--

rayl (بيل) E. =P. تربي F. train: AA. ربي «expresetrain".—A misapplication of the E. "rail"; also layr, q.v. Syn. qatār-، āhin q.v.

rabar ( رهبر ) E. = P. رثين R.- کش-india-rubber.

rākūl ( داکول ) = P.....a harrow.

rārawī (راهروی) =P. اهروی) (rāhrāw) passage, corridor.—cf. supra nā-ourizī.

rasipar (روانه P. عيار) going; being sent.-

rāy kardan ( اراهي کودس) = P. فرستادس to send.—cf. Iv Birj. 255 note 2; Morg Front. 284a.—

regiment. ... و ج regiment ( رجمانت ) E. = P.

rikābī (ركابي) H. = P. ملنكي saucer.—cf. Lor Phon. 204b "rikābī. dish".—

--- rhubarb ربواس P. بواس řhubarb رواش

rizā šudan ( رفا شدن ) = P. راهبي شدن to agree, to accept.—cf. also safā kardan.—

rīspān (رسپان) = P. رسیان rope.—Used in current speech in preference to the P. form. I have not, however, seen it in writing. Occurs also in vulg. speech in P.

rīzii (ربوش ) = P. کام cold in the head.—

rubāt ( دراها ) obs. = P. کاروانسرای caravansera.—

rujū ba (OL. ירב א ב) P. פיאם ש', with reference to....... of, rizā šudan, sa/ā kardan, gimat, etc.

ruz dādan (AA. روی داده) =P. (رخ داده) to appear; to arise; to occur, to happen.—The expression is used in K. along with the usual P. form.—I find one instance of it in 'A bdul - Karlm' is text, p. 85 i.e. :

ruzeat, (vulg.) ruzzat ( رخصت ) =P. (1) مرخّص leave; (2) مرخّص allowed to depart; (3) خامرش gone out (fire) [Syn. gul, q.v.]; ātuš ruzeat šuda "the fire is gone out";

ruzsat šudan = P. مرخصى كرفدن "to get leave" ;

بندة را مرخّص or نندة ميخراهم مرخّص شوم P. مندة or نندة ميخراهم مرخّص شوم (may I go ?" "allow me to go".--

The word occurs in 'Abdul-Karlm's text once, p. 17 l. 13, and twice in Md. Amin: T. 345 l. 23 and 358 l. 21.—

demands, as the first link in the combination, an adjective or (and that mostly)

an A. passive participle. K., however, allows (or, should we say, encourages) the use of abstract nouns in such compound verbs.—vf. Morg Front. 285b.; also Morg Texts, 311, 11 3, 6; 315 1. 3 etc.

ruzsatī (خصنی) = P. تعظیل holiday; vacations.—Syn. قائل

rānumā èudan (رونها شدن - روی دادن .) = P رونها شدن الموبه to take place; to originate: AA. بيانسمان و رطابه الله در بين الغانسمان و رطابه شد "a conflict arose between Afghanistan and England".—Syn. rux dādan, q.v.

rūydād (روداد اوي جرگه : proceedings مورت مجلس P = (روداد ) proceedings (روداد ) "proceedings of the Liv-Jirga" ---

### 8

sabaq ( سنة ) H; T = P. درس lesson.—The word, although good A. and occurring occasionally in Persian literature, is unknown in P., but is occlusively used for "lesson" both in Afghanistan, in India and in Turkey.—cf. also Morg Front. 280b.—

 $ab\bar{a}h$  (منام ) = P. (1) منبج to-morrow; (2) منام [in the]

It is an abridgment of the A. على "on the morrow".
Under the miluence of P the word fardā has also (quite
recently) made its appearance in K. but it is used in a
most imappropriate way, mostly in the meaning of "this
morning", in sentences like "jardā raifa anse magmanda"
"he went this morning (lit, to-morrow), (but) has not
yet come back".—

It occurs many times in 'Abdul-Karim's text: p. 17 1. 2; p. 20 i 18, p. 24 i 15; p. 34 i.16; p. 50 i.12; p. 52 i.4: p. 50 i 11; p. 61 il 7, 12; p. 68 i 18; p. 9 0 i. 6, p. 74 i 16, p. 81 i 8 -cf. Morg Front. 286a; 406a.

sadā kardan ( مدا کود. ) = P مدا کود. to go off (of firearms). salar.:<ary (OL. عشارج سفر = P. مشارج سفر travellingexpenses.—

sufā kardan ( صنا کردن ) = P. رصنا کردن to clean.—cf. also supra rizā kadas.—The use of لنا مناس ) in the meaning of "clean" might be due to the influence of H. In P. إنا استان است استان المناسخة (of liquids), "teansparent" (of glass, precious stones, etc.). even إستان مناسخة (means in P. "to

- clarity", never "to clean" (not even when speaking of window-panes and the like).—cf. MorgFront. 287a "sâf, clean, clear, in order".—
- safir muxtar (sic: AA. وزير مختار P. ) Minister Plenipotentiary.—
- sakka ( سَّمّ ) H. = P. نتي blood-relation: [birādar-i] sakka-i ma "my own brother".—From H. sagā "own; full; wholeblood". sagā-bhāi "own brother" (f'allon, s.v.)
- salāsūm ( ملاسوم ) T. ? = P. شق lynx.--
- samāruq ( سمارق = P. (سمارق = wushroom.—Dictionaries (Steingass, Platts, Bianchi) give مماروغ as Persian, but I have never heard it in P.
- sanādīq ( منادرتها ehests; boxes.—Very current in ordinary K. speech.—
- sandali (متلاب) = P. كرسة a kursi" (a contrivance for keeping warm in winter common to Persia and Afghanistan, consisting of a chafing dish placed under a low square-shaped table covered with a huge square counterpane under which all the immates of the house sit by daytime huddled up to their chins, and sleep by night with their feet converging towards the common centre of warmth—the chafing-dish)—of supra čauki.—
- منتك بشت (r (less common لاكپشت ) = P. استك باته ) or (or (less common منتك بشت الله المتاريخ باته )
- --.tangerine نارنگی .H = P ( سنطره ) tangerine
- saptambar ( سپنمبر ) E = P. پښتامبر (saptambar) F. September. sarak ( مرک ) H. = P. اه راه road, avenue: sarak-i puxta "a causeway".—
  - The word seems to be borrowed from H. سوك م صرك "a continuous line of road, road, high-road, highway" (Platts).—
  - Our word has probably no connection with the word cuucked IvTab. 24 note 1, as used only in the expression "sinch kishidin in the sense of 'to spy, to watch stealingly' in Fars".—
- $sardar{a}w$  ( سرداب ) =P. آب انعار underground reservoir for drinkingwater.—
- sealing-wax.-- لاك R. =P. اسر غوج sealing-wax.--
- sarkārī ( سركاري ) H. = P. دولتي governmental, belonging to the government —In Md. AmIn's text, as quoted by

Teufel, the word موکار occurs twice: T. 296 l. 13 "Fiscus (سوکار)" and 329 l. 5 "موکار" Domänenkammer". cf. also Morg Front 288b.

ear-kātib ( سوكالت ) = P ( مسوكالت ) head-olerk; First Scoretary (of a Legation) —The compound seems to be of recent origin and probably horrowed from T.—

\*\* table-cloth. سعرة - (rūmīzī) (ومىزى = P. (سو مىرى) table-cloth.

headmaster (of a رئيس مدرسه P ( سر مملّم ) headmaster (of a school)—The word seems to be a translation fr. E. unless

ıt is a formation on analogy with sar-kātib, q.v. مr-tabib (سوطندس )=P. مكتم باللي [head-] doctor.—

معمورة ( مودا ) obs = P. احتاس - جنس goods : navedā kardan "to sel".

«knitting wool.— نخ نشمی P. و موف نخی knitting wool.—

-. to send فرسنادن - روافه کوردن . P = ( سوق نمودن ) sawq numudan

suvza ( سبوء ) = P. ) مسره ا (۱۵۳۰ ) اسبوء ) اهسره = P ( سبوه ) sayl ( سبل ) = P ( سبل ) sight; sight-seeing : باد داشت سبل بینی

(heading of a hand bill) "program of the recreations" (in Paghman) A corruption of the A. ستر. In P. the word (though seldom used) would be understood as "taking a

walk".— ## sābiy az-īn(AA. نانجال - سانة ا = P. نانجال - سانة ( اسانق ا + اسانق ا + اسانق ا + اس

now.--sāč (ساي ) = P. مار starling.--

sate (عالم الله على الله sataring.-
Ȋlan, sälän (مالان - سال ) E. = P. الله (saläd) salad.-- A corruption of the E. word Prob. through H.--

shirting.— علوار P = P علوار shirting

معترى) = P (سحرى) at dawn: ma sārī āmadum "I came at dawn".—Lor Phon. 186a has got "sa\*r, morning"; cf. also Morg Front. 288a; 407a —

.-- musician ساز گر- ناررن ، obs = P صازند، musician ساز گر-

eigret ( سارت ) E. = P. سنكار cigarette. - Syn. čerut, q.v.

silāhandā: (سلاح انداز P.) عبر انداز skirmisher.—cf. Md. Amin: T. 312 I. 5. مسلاح در ترکونه Ad 338, last line (note) is no more used in P., where its سلاح طلبد

plural-form اسلحه 18, however, current. silipar ( سلير ) H -E. = P. مسليير كلان پاي مردانه : hilipar ( سلير) "large size slippers for men".—Applied only to slippers of European make, as opposed to būt, čapli, jūti, mūza, q.v. sipāh ( سياه ) obs. = P. مر باز

In P. the obs. word Mar could mean "army" (for which, however, nowadays only the T. word optimized in seed in P.) but could not be used to denote individual soldiers. Md. Amin uses the word in both meanings: T. 298 I. 6; 328 I. 15; 334 I. 15; 334 I. 15; 345 I. 15;

sisad ( سنه صد ) = P. سبعد (sisad) three hundred .--

sisi (سسس ) = P بنهر a (kind of) partridge —

reděta (ميسة ) H.-Psht. = P. الحال real, original.—From H. through Psht. (or independently), where, according to Raverty, who gives the word as معلم عدية عدية مدية أن means "pure, undefiled, unpolluted, clean, unadulterated, without flaw". It is, however, used both un ordinary K. speech and in C. in the sense of "the real article", as opposed to futu (ماية) "imitation".—

su[ayd, sufēd ( سعند ) = مفید (safīd) white.—

sukuštan v. šukustan

-- hoopoo هدهد .P عدم اليمانية ) =P.

- jug كوزة - تنگ . obs. = P ( صواحى ) jug -

surz (أمرة) = P. (أمرة) red; (أمرة) hot: āb:, surz = P. (أمرة) "hot water" In P. the word is used along with that subtle difference that the latter denotes an inherent or natural redness, whereas the former is used with reference to an accidental or artificial redness: مركب "sed ink", but ab " بنيا بنيا "his face became red, he blushed": "بنيا "a red apple". The word موجعه دو العلم المناسبة المن

sutra v. sūtra

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soup. -- ا عنوب ) E. = P سوب
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suča (موجة ) Psht. = P. طيف - نظيف - ناكت clean; pure; fine.—
of Rayerty, s.v.—

usurer.-- ربا خور .P ) = P ربا خور

sum (۱۰۰۰) = P. سو (su) side.—cf. Iv Bir j. 280 No 30 l. 1 and note l.—v. also Introduction, p. 11.

surryn ( سورية ) = P. شاه Syria.--

sūtra. sutra ( سترة - سترة ) H. = P. نظبف - پاکس 5 - باکث elean; tidy; pure.—Fr. H. سنبرا suth'rā "neat; tidy; clean; clear" (Fallon s.v.).—

#### - 8

šabīna ( شىنة ) = P. شانه nightly; at mght.--

هُ الْمُعَلِّمِ ( شَعَالِ ) peach —In P. the word means a kind of apricot.—cf. Morg Front. 289 b, Morg Shugh. 68.—

àámā ( شمع ) = P. شمع (àam') light; candle.—

šamāl (عنسال = P. si wind.—In K. šamāl does not necessarily mean "northern [wind]" (as it would in P., where t could not be used without the word st prefixed to it), and is used with reference to "wind" or "strong wind" in general, irrespective of its direction.—of. also Md. Amin: T 3651.10; IvBirj. 286 No. 51, 287 No. 53, etc.

ot منتشر ساختین انشکار دادی .=P سنواندی متعاشطه به منتشر استان متعاشطه به منتشطه است. make heard, to spread abroad, to divulge; to announce, to declare: AA با تشدر نشازده این "we have neither heard nor published (any such thing)".—

\*armīdan (شرمندس ) = P. غجالت دادي to put to shame; to make ashamed.—

قaršam ( سرسم ) = P . . . . turnsole-seeds, ---

غه ( شش ) = P. سس (۱۱۶) six ---

به خاصفهٔ النبي passing the night; stayng for the night: OL خارجه بالتي وزارت خارجه چه در صررت شب باشي وزارت خارجه بن دادرد الخ بالا در دادر الخ الله بالا در الا الله بالا در الا در الخراد الخراد

hard, firm.—cf. Raverty, by سخت - سعت ) = P. سخت hard, firm.—cf. Raverty, by whom it is given as Persian on p. 646 b, but as Psht.

- hābās ( شاماس) H. = P. أثرين بازك الله ( شاماس) brave! also ay hābās in the same meaning.—An Indian corruption of the Persian مناه باشي not used in P.— cf. Morg Front. 289 b.—
- شادر . monkey.—Prob. fr. Psht معمون علي شادي ) شادر . monkey.—Prob. fr. Psht معمون ( تشادی )
- .-- large basin ; wash-tub نشت طشت .- P ( نساة كاسه ) arge basin ;
- خَشامه نشاندن ) = P. نشاندن to make sit; to put, to place; to plant: AA أساندن بوالى اساندن بوالى baray-i مُقْطِمُ مُرسَعْي براى ساندن بوالى baray-i مُقَسِطُهِ مُراكِع plot of land for planting sapling ".—Causat, fr. háidan, q.
- honey.—v. Introduction, p. 9. عسل ) obs. = P. عسل honey.—v. Introduction, p. 9.
- pitchfork سه شاخه . P = ا شاحي ) pitchfork
- tiger. v. Introduction, p. 6. سير ) = P. ببر tiger. v. Introduction, p. 6.
- «ērdān ( سيودان ) = P. سيو (šīr) tap.---
- hospital.-- مربصطانه H. =P. مربصطانه
- a com- سركت تجارني T. = P. سركت الفجار a commercial firm.--
- sistan (ششنى ) = P. شسنى to sit: da dukān šišta ''he is sitting in (his) shop''.—Imp. šīn and niš.—of. IvRust. 255; LorPhon. 187a; 202b.—
- šīr v. šēr
- رهبر شير (شير feeding-bottle: C. پشرېوشک) =P. شنانک و feeding-bottle: C. جوشک "indiarubber نوک ستانک =P. جوشک "indiarubber teat".
- ice-cream.—Prob. a mere translation fr. E.—
- مَنْ اللهُ عَلَيْهُ ) H. = P. .........the tree Dalbergia sisu and its wood (much used in manufactures) (Platts).—
- štabrī, نقلمان نوت ورنگی .E. = P. اشتبری شنبری strawberry Also tūt-i štabrī, where the prosthetic i- disappears owing

to the presence of the  $i \times \bar{a}$  fa , which helps the articulation of the word.—

#tikur kañdan ( شكر كشدن ) = P. نشكر كاشدن to thank; to be thankful: AA. شكر منكشم "I am thankful".---

šukuslan. sukušilan ( مكشدى ) =P. (šikaslan) to break —

قumār kardan ( سمار کردن ) obs. = P. حساب کردن to count.—

\*umāyān (سمانان ) = P. شماعا - تشما you (when addressing several persons). v. Introduction, pp. 21-22.

šūar ( سومر ) = P. سومر (šawhar) husband But LorPhon. 187a: 202b gives ' šauhrr'': cf. also MorgTexts, 310 " šawur, husband".—Syn. хёу, q v.

deliberation discussing (a question).-- ( سُور ) = P. مشورت .- P. ( سُور )

öüränidan (شروالندن) = P. (شروالندن) to make revolt; to ineste to revolt \* AA. ابن عمامان را برصد حکومت سروالندة است "he had ineited those tribes to revolt against the government"...."

to revolt.-- شورش كودن . obs. = P ( سور دبي ) to revolt نسور على أ

suy ( عبر ) obs = P. غود husband - The word is more current in K. than its synonym suar, qv. cf. Morg Texts, 314 l. 6, 315 l. 4, etc.—

#### Т

لعل ( س ) E. = P. طشت حمّام tub —

tabarča ( سرچه ) obs. = P. نشف axe, hatchet.—cf Morg Front. 4 10a ''ta'bar 'axe'" —

t chalk. Skr. teakšīra (سامود) H. - P. كل صفود با داممود) t chalk. Skr. teakšīra (maga of banboo" (Steing ass). "manna of banboo" (Platts) — The word occurs once also m M d. Amin's text: T. 364 1 18 ما المسروعة Entirely unknown in P.—

health.—Same in H. In P., المناقل = المرال - حال + المناقل ال

tahāna ( مامه ) II = P معله a small fort; the head station of a district.—From H. thāna.—

more بیشتر با تجربه - مجّرت تو P = ( نجربه دارس more experienced.

- tablif ( کایف) = P. زموت trouble.—In P. the word means "duty; what is incumbent; what must be done "كليف", or, by way of abbreviation (كليف به an expression often occurring in P. as a concluding formula in telegrams: "what is to be done?" or "what have I to do?" of also Phillott, Preface.
- tala kardan ( ار حا بر داشتنی ) H = P. ار حا بر داشتنی to push · to push off, to remove.—Prob. from H UU of Platts s.v.—
- talak ( طلك ) = P. مل a trap (as mouse-trap, rat-trap ).-
- telescope. -- دور سي E. = P. تلسكوب telescope.
- talāw ( الله ) H. = P. اسلنے حرض pond, cistern.--
- tagarrur تىرى مقرر شدى T. ? = P. نقرر ) نقر مگره appointment, being appointed: AA. r مقرر مگام درچة appointment of governors of the 3rd class "--
- tarangan ( زنزائس) Psht. = P. طور کاه کشی net (for carrying straw, hay, etc., on donkeys).—Fr. Psht. نرتګر trangarr.—cf Morg Shugh. sv. "teráng 'girth", etc.
- tarbūz (تربوز) H. = P. هندوانه water-melon.—cf. Morg Shugh. p. 71.—

تاریخی .dated . . . In P مرزّخهٔ . . . .P = ( تاریخی .dated . . . means only "historical" .- On the other hand, one finds on printed official letter-forms in K. the word مرزخه

taking the place of the P. expression بناريخ "on the date of...."-

interpreter, translator.--- مترجم T.? = P. مترجم The K. form of the A. word is probably adopted from T., where it is the only word used in that sense (unless it is H.?). The P. equivalent is also, though more seldom used in K., but then with the intercalation of an unnecessary vowel; v.s.v supra. The A. root itself of the word, although decidedly Semitic, is probably a loan-word in A. (as seemingly also in Hebrew) and might prove to be of Aramaic extraction .-

vegetables.—Obviously مبعى - سبزجات P. ا تركاري vegetables.—Obviously to sow ".-- " الشنى moist; fresh " and " to sow

tarmayda ( نرمندة ) H. = P أرد flour. -- Syn. mayda, q.v.

to recognize: AA. شناخس P. نسليم کودن to recognize since " جون استقلال افغانستا. را تبامي دول منبدنه تسليم كردة اند all the civilized countries have recognized the independence of Afghanistan....".-

واضيم شدن - ظاهر سدن - مسلّم سدن (1) P ( نسلم سدن ) taelim kudan to become clear, evident, obvious; (2) مول نمودن - گرفتن to receive (a letter, a sum of money, etc.) v. Introduction, pp. 32-33.

having the honour (to attend سوسانی T. ? = P. تشرّف) having the honour a function, to pay a call, etc ) -

tawānı×tan v. tānıstan

tawba ( نوبه ) H. = P. داد و سداد Alas! -- An exclamation used on occasions when a European would swear.—

tayār (ديار عليار ) H. = P. حاضر ready.—Occurs once in 'Abdul-Karim's text: p. 81 l. 11, and twice in Md. Amin: T 339 1 33 (note) and 363 1. 7 .- of. Morg Front. 296a, Morg Shugh 72. -

taygar ( سگر ) E. = P. ..... bulldog.—Obviously the E. " Tiger ". - -

taylafun ( OL, نامون ) = P. بامون (tilifun) F. telephone.-tayzāna ( قد خانه ) = P. نبر رمس cellar; basement-room.—

tazkār ( AA. تذکار ) = P. ياد آواي reminder; remembrance.—

- tā al-hāl (AA. السال العال العال علا تا حال تا حال العال ( تا السال العال until now. tā anāz ( تا منوز ) = P. عال - تا حال t until now.—Syn. of the preceding.—.
- tāijawī ( AA فانعها ) = P. طانعها ( tā'ijeyī ) tribal.-
- tāk ( ناک ) = P. درخت انگور vine.—cf. Morg Front . 293b.
- tālibu-l-ilm (طلعه شاكرد مدرسة على العلم) school-boy; student — Syn. muhassil, q.v.
- tānistan, tawānistan (ترانستنى ) For its uses, v. Introduction, pp. 33-34.
- scull-cap.—Steingass وتوجين (خانس خانل scull-cap.—Steingass gives it as Persian, but I have neither seen it in literature, nor heard in P. speech.—of. Lor Phon. 181a; 196a; also Morg Shugh. 70 "th" the 'cap'".—
- telegraph-] wire: tār zadam = P. من المراف (2) wire: tār zadam = P. من المراف (1) المرافقة عليه المنافقة المنا
  - $t\bar{t}\gamma$  ( $t\bar{t}\gamma$ ) = P. نغ ( $t\bar{t}\gamma$ ) point (of any sharp instrument);
- têl ( تبل بادام ) oil : têl-i bādām ( تبل بادام ) almond-oil ; têl-i zāk ( تبل خات ) = P. نعل kerosene-oil — Fr. Skr. talam.—
- to [make] pass.-- مبور دادن P. تبر کردن ) to to [make]
- ter hudan ( عبور کودن ) = P. عبور کودن to pass.—of. Morg Front. 410b; Morg Texts 309.—
- لؤر (يَوز) =P. (1) ثبر (tiz) sharp.—cf. Morg Front. 296a; Morg Shugh. 72; (2) نود swift, quick.—cf. Lor Phon. 181a, 196a.—
- tta ( تىزى ) = P. سوعت زودى نندى quickness : speed.-tilgirām v. tilgirām
  - tigir ( بوست برَّة تودلي ( گل دار ] T. ? = P. ( تقر ) skin of a deadborn lamb (with ourls).—of. supra lisak.—

# F. [postage-] stamp تيم ( ننکت ۽ تنکس ) E. = P. ( ننکت ۽ تنکس )

(2) July R. ticket .--

tilgirām, tilgirām ( نلگوام - بدلگوام ) =P. نلگواه ( tilgirām ( نلگوام - بدلگوام gram : wire : cable -The form with the long -i- seems

to be the officially recognised, as we find it in the headings of the printed telegram-forms .--

to scatter ; to برزمتن انداختن - ربغتن . P. ثبت کردن ا to scatter ; to throw down .- Prob. fr Psht. Fit "crooked, bent, " verb trans to bend, to curve " تندل or " verb trans to bend. etc. (Raverty, sv) Lor Phon. 157 .- cf. also Lor Phon. 196b: "fit; fit k., to put down", etc., Morg

Front. 295b.: "tit, distributing, tit kan-to distribute, throw about" -طوب شصت بيو .P. ( بعثگ ماسيس،دار .P. العثگ ماسيس،دار

machine-gun.---

tulabā (طلعاء ) = P. علّات (tullāb ) students -An example of an arbitrarily formed A. broken plural it is obviously meant to serve as a plur. for the sing. [ طالب إ العلم (v. supra), but is in reality a plur. form of the adj. طلبت,

which does not mean (in spite of Steingass s.v.) "student" either m P. or K. (Steingass, besides. gives himself for the only meaning "inquisitors") .--In P., however, the sing. All, is not used at all, its place being taken by one of its plur.-forms--all-, which serves as sing , whilst the second plur .- form of the word-

is used in its plural-meaning . tūrkiyı ( نركنه ) =P. عثماني Turkey.-tūl ( عول ) E. = P. عور (tūr) F. muslin.— E. 'twill".— F.

"tulle" ... raptain (in the army).--

The first link of the compound seems to come fr. Psht.

tolacy "a company", etc. (v Raverty, sv.), for the second part of the word v supra under bulükmiğr .-

tul kardan ( نول کودن - کشددن P. ) = اول کودن tul kardan ( نول کودن ) weigh .- fr. H. cf Skr. tulayamı; H. "tola". cf. Morg Front. 293b.

tūla ( توله ) ؟ = P. سوت whistle --Syn. tšpilāq.

tūrkiya v. turkiya.

tūta ( تربه ) = P. موده ، تكه . piece , bit ; chip ; small .-- Prob.

- fr. Psht. ترته tota or ئرنكني tülankary "a shaving. a chip, a clip, a filing, a fragment" (Raverty) —
- tùtā ( طوطى ) H. = P. طوطى (tūtī) parrot.--
- tūy ( رُوي ) T. = P. مورسي marriage; marriage-feast. wedding -1 find it only once in 'AbdulKarim's text. p. 83 l.
  22.—cf. also Morg Front. 296a 'tū'yāna.' price paud
  for the bride'"—

### IJ

- uyitr ( اعرر ) T. ? = P. عارت عارت mortar. cf. Morg Front. 232a who takes the word to be Persian. I do not know the word, and was unable to trace it.—
- ükum ( محم ) = P. حكم ) with not allowed " (lit. "it is not ordered" or "it is against orders").
- umayd ( اصدد ) = P اصدد ) = P ( umid-ummid) hope: umayd mēkunum =P. اصدوارم ( 1 hope".— '1 hope".— Note the unsound construction of an abstract noun expressing a state with an active verb.—
- urūp (AA. ינפף ) E = P. ינפף (ũrūpā) R. Europe.—
- urûsî ( باروسى ) = P. پنجره window.—cf. Morg Front. 388a, who gives it in the form ur'sî and classes it as Persian.— Syn. kilkîn, q.v
- $\bar{u}n\bar{a}$  (sic: AA. اونها ) = P. آبها they —v. Introduction, p. 22.
- niǎān (AA., OL. الْبِسُلُون ! P. الْبِسُلُون they.—The word occurs in that form not only in current speech (always), but also m writing and print (along, however. with the standard form).—

## W

- wajd ( وقد ) T ، = P. مثلت mission; corporation.--
- - soaqian kı (AA. ونتبكه ونتبكه P. عن at the time when ---

waqtan-waqtan (AA. وقتاً وقتاً from time to time —

warxadā řudan ( و رخطا شدن ) = P. نرسيدس to get frightened. wādār dāšlan ( وادار داسة ) = P. مجبور كردس to compel.—

ية (وار) =P. وار) yard.—cf. my "Afghan Weights and Measures" JASB. XXIV, 1928 No 4 421 note 1.—

Measures " JASB. XXIV, 1928 No. 4 421 note 1.4 wārnis, wārnis (رومان E. =P. رومان varnish.—

wāzki ( ارْزَتَ ) E. = P. ها جارة R. waistcoat. —cf. Lor Phon-188b: Morg Front. 297b; 412a. who both record the word with an — Yet the — a learly heard in K where the word is probably connected in popular etymology with war & bar 'open 'and ki < ko' (cat' wwwāt ( اوران ) = P. والران ( wwwāt ) ( wwwāt )

wuqūāt ( وقوعات ) =P. وفاع و vents . AA. وقوعات ) wuqūāt : dāxiliyyn) =P. وقاع داخله (vagāyi'-i dāxila) "home events".---

### х

xula ( هَذَهُ ) = P. بعبدة خائر و دائير عبدين sorry, displeased, disappointed; sud; angry.—of Morg Front 298a; 412b; Morg Texts 311ll. 5, 6, 7, etc.—In P. the word means "strangled, suffocated".—

ralak ( خفت ) = P. .... polecat.-

adāe ( خلاس ) = P. (1) أنبام (finished; out of stock; (2) حامرتن gone out (ftre): ''nu radās šida "the barley is finished. out of stock". atdis radās šida "the fire is gone out "— In P مُلاًع سندس الله free oneself", "to get

ratila ( خليف ) H. = P. احتاد master (when addressing an artisan).—Syn. mistri. q v.—The word is used in P. only with reference to a "Christian priest" (besides its ordinary meaning of "caliph").—

ralla ( خرطه bag; leatherbag (for money); purse; wallet.—Used, though seldom, in P, but then with the correct pronunciation as zarité.—

- zaruēlāt (\*/1). H. = P. [-]. no who rides on a donkey; donkey.man.—The suff. 100/16 is borrowed from H. (\*-100/16\*). The difference between this word and the preceding is that arkār denotes a professional donkey-driver, whereas zaruēlā, a man oceasionally connected with a donkey (for instance, seen riding on one etc.).—
- xasta-xāna (خسته خانه ) = P. مريض خانه hospital.—Syn. ši/ā-
- zat ( bà ) = P. ae's letter: cf. Morg Front. 413a. In P. the word means "[calligraphical] handwriting", also "a line".--Syn. k7z. q.v.--
- -.ash-pan زير سنگاري .P ( خاكسترداني ) ash-pan زير سنگاري
- ته مههٔ شان خرامان AA. (خرامان = P (خرامان) علاقت علمهٔ شان خرامان ) AA. المنابت عالي مسنند منند "who all of them are yearning for higher education" —In P. the word is used in the meaning of "[well-] wisher" or "[well-] wishing "only.—
- --. room اوطاق اطاق P ( خانه ) room اوطاق -
  - The word means in P. only "house". The P. equivalent of the word is, however, sometimes encountered in K. newspaper-articles, probably in such as are integrally reprinted from P. newspapers: AA وطائق تجارتي "a chamber of commerce".
    - I find the word in 'Abdul-Karim's text only once:
      p. 38 l. 21 in the sentence already quoted supra s.v.
      mā-bays, q.v. LorPhon 178b. and 193b. records, however,
      the word with the meanings "house" and "house.
      home".—So also Morg Front. 299b.
- ية من عند المنافع عند المنافع المنافع المنافع dining-room.—Syn. xāna-i taām, q.v.
- aāna-i šištan ( خانهٔ ششنی ) = P. مالون P. و الخانهٔ ششنی sitting-room; drawing-room; reception-room —Probably a mere translation from E.
- zāna-i taām ( خانه عام ) = P. اطلق صفرة خانه dıning-room. Syn. عقامة nānzuri.
- يَّرُانَّةُ مَرِّهُ أَنَّهُ مَرِّكُ أَلَّهُ مَرِّهُ أَلَّهُ مَرِّهُ أَلَّهُ مَرِّهُ أَلَّهُ مَرِّهُ أَلَّهُ مَرْكُ أَلَّهُ مَا الْحَالَمُ اللهُ اللهُولِي اللهُ اللهُ اللهُ اللهُ اللهُ اللهُ اللهُ اللهُ اللهُ اللهُ

expression, as also the three preceding expressions, are therefore anologisms which have arisen to meet the requirements of the new ideas imported in the two countries by foreigners—in Persia somewhat earlier, in Afghanistan quite recently. It is interesting to compare with each other the forms assumed by these neologoums in the two countries expressing so differently the same ideas, in practice ally the same language.—

xārpīšang ( حَارِيشَنَك ) = P. مومه مومة hedgehog. Obviously for rār-pīšak "thorny cat". cf. for the -n. 1 v K u r d. 231 "praing, cat" (already quoted supra v. pīšak. q.v.), which is the only other instance known to me of that word being pronounced or spelt with an -n- in the final syllable.

--- taıl دم P = ( خاش ) čāš

xāw ( خواب )=P. حواب (xāb) sleep ; dream.--

دولا (خيل Psht. =P. كا tribe; clan.--

The A. collective noun means originally "horses, horemen, cavalry." In Pah t he word has been adopted to denote the different Afghan tribes, and is used in K. chiefly as the second part of a compound, the first link of which is the name of a tribe,  $c_{ij}$ ,  $N_{i} May m^{2} n^{2}$ .

(Liu A. M. C. L. C. L

xidmatgar ( خدمنگر ) H.=P. بشخده: wervant valet --The word خدمنگر (with a long -ā-) means in P "a maid-servant; a maid", and cannot be applied to a male domestic.--

xīsdan ( خيستَن ) = P. خيستَن to get up : ma az xāw xīsdum "1 awoke" (lit "1 got up from sleep).—ef Iv Bir j. 270 note 5; Morg Front. 301a.

zuār ( خواهر = P. خواهر (xāhar) sister.—cf. Lor Phon. 178b; 194a; also Morg Front. 413a; Morg Texts 309 note 2.—

rud, ru ( ) = ) = P. (2 ) = self; same; (2) at all the same; but: tu ru tjir aetil = P. (2 ) at all the same; but: tu ru tjir aetil = P. (2 ) at all the same; but: tu ru tjir aetil | 2 P. (2 ) at all the same; but | 3 | all nght | 1 - In K. speech the word (or particle) occurs continually without any particular meaning being attributed to it except stressing the sense of the phrase in

which it occurs. A reverse, i.e. a moderative effect is obtained in K. by using the adverbial expression gluga "Idarsasy", which is also extremely current and repeated by some individuals almost after every word they pronounce.—cf. Iv Bir [. 260 No. 7 1. 8; 304 No 126; 305 No. 129.—cf. also Morg Front. 298b.—

rudhā ( خود شان ) = P. خود شان themselves.—In P. this pronoun has no plural form —

rold—In P. the word means "cool, fresh", and is applied to coolness of a pleasant character (in summer). In K. rawak is used indiscriminately to denote any kind (and degree) of cold, more especially a regrous cold of an unpleasant character (in winter).

I find one instance of the word משמש being used as in K. in Abdul-Karlm's text p. 89 1 1/2; أوسنان بساز 1/2 نسان 1/2

zurāku ( غزراک P. (1) عليق fodder; (2) خزراکه fodder; مخرراکه مخرراکه آن. ۸A. ثلهداشت هنوانات و خزراکه آن. the keeping of cattle and their fodder".

rurd ( اه خورد . خون الذلك ( اه خورد . خون الذلك ( اه خورد . خون الذلك ( الدلك ) الدلك ( الدل

etc.) or any other uniform commodities (like charcoal, etc.), but never individually. The word حيحيا seems to be unknown in K. Anyhow. I have never heard it used in speech, nor seen it in writing — 'A b du I-K kar Im 's text contains it once, p. 91 1 9: "كلي المنافذ ال

#### Y

yakum ( بکم) =P. ارآل the first: شهارهٔ کم "No 1" ("Anla").  $yala\ kardan$  ( یکم) =P. کونی P by to let go; to let loose; to leave olone—of. 1 B = 1 = 1 = 10 $\times$  9. 2 = 11= 11= 11= 11= 12= 11= 12= 12= 13= 11= 12= 13=

--- cold سرد .P ( بيغ ) yax

The word means in P. only "iee, iced", but might sometimes impart the sides of "freezing" بال من " "to freeze" (of a river, a pond, etc.).

tes also, naturally, used in K. m its standard meaning of ice; cf. Lor Phon. 1856.—Morg Front.
413b. Morg Shugh. 78. Morg Texts 325. 11 translates correctly "the front has struck us".

yaxan ( يشن ) = P. هشن مقد collar v. Introduction, pp 11-12.

zambēl, zambil ( ربيل ـ زيبل palanquin.—Corr.

zambēl, zambīl ( ربلن - زبیل ) =17. و تونی patanquin.—corr of و عدد zan-bar, lit "woman-carrier".—

zamin-larza ( رمس لروا ) = P. وارك ( earthquake.—Morg Front. 302 records the P equivalent for Parachi, but Morg Slugh. 18 has got a most interesting parallel compound "caminitumb"—

zanāšūyī ( رناشوئي ) = P. ازدواج matrimony, wedlock ---

zanyabil (زنجسل ) = P. زنجعال ginger. —Syn adrak q v. zan-talāq (زن طلاق ) = P. قرامساق [voluntary] cuckold —A term

a [voluntary] cuckoid — A term of gross abuse not known in P.—

zardak ( (زردک) ) = P. مونج carrot.—cf Psht. مونج ; ardaka'h (v. Raverty, sv.); also Steingass s.v. The word in Psht is probably borrowed fr. K.—

Br Dial. 794 gives the word as Persian in explanation of the dialect.  $y_2^{\mu}$ , but it is not clear, whether the gloss is his own or quoted by him from the Ms he is dealing with of Iv Bir j. 343, who explains it. however. as "a sort of beet-root"; but of Morg F ron t. 303a.—

zarūrī ( (מקנים - necessary (2) פנים urgent: barā-t mān zarūrī as 't is necessary for us'', ī cat zarūrī as "this letter is urgent" - In P. that word, if ever used,

could be only understood as a noun: "lavatory, latrines". تقفظ ( صاط) T. =P. مراداز -Obviously of recent importation from Turkey.—Syns. askar, laškar, sipāh, u.v.

zād kardan (راد کردن) = P. اندن, to give birth.—Another

instance of the splitting of verbs. so current in K., v. Introduction, pp. 28-29. Lor Phon 187b and 203a has, however, got "zoi.id-zoi(y)-, to give birth to".--

- $z\bar{a}n\bar{u}xam$  ( زانو هم زير ( زانو هم زير ( زانو هم زير ( زانو هم زير ( رهر  $z\bar{a}n\bar{u}y\bar{a}$  ) إهر ( و ( رهر  $z\bar{a}r$  ) ( رهر  $z\bar{a}r$  ) زهر
- zāt kardan v. zād kardan.
- يراعت ديمي (زاعت اللي) ) =P رزاعت اليي, natural agriculture (i.e. without artificial water-supply)—From Psht.: of. Raverty s.v., also Morg Voc. 36 "lalmi growing naturally, 'not irrigated'", etc.
- staircase.— Barth olom as o (Zur Kenntaiss d. mittellarinsischen Mundarten, I., Sitzh HAW, 1916 pp. 45-47) discusses at length the Pahl. word aleane, for which he gives the reading u-mak and two meanings (1) exit ("Ausgang") and (2) ascent or ascension ("Aufgang") and derives from it (1) active "expenditure", and (2) air, "ladder" or "staircase". He is, however, not aware of the existence of such a word in colloquial Tajlkt and thinks it to be a mere "dictionary word", without any example ('ohne Beleg') in literature".—He further expresses the opinion that the H. sig is un-Indian, and must be the same word borrowed from Persian (fibid. p 47)-
  - Md. A min has not got the word, and uses instead of it its P equivalent: T 365 1.12.—

    f. also 1v Bir j. 343, who explains it, however, as "the lowest step of the staircase".—

    ina-i \*edad (lit. "standing staircase") is also used in the
- litted from its place (sic'); ohain-hinges "(Fallon, s.v.) ويقا (عنف) = (عنف) علية وعنف) weakness.—Both vocalisations are, of course, admissible in A., without affecting the meaning of the word, but the one used in P. seems to be foreign to K., which, in its turn, is entirely unknown in Persia.
  - ž



## Animadversiones Indicae.

### By GIUSEPPE TUCCI.

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## I On Maitreya, the Yogácara Doctor

Professor Ui<sup>1</sup> has in a series of studies pointed out that no doubt is possible concerning the historical existence of Maitreya who was the master of Asanga and was himself the author of many works. He supported his view by reforences to the Chinese translations of some Baddhist texts. It will not be useless to quote here some new sources, which quite agree with his opmicin.

(I) The commentary of Sthiramati upon the Madhyāntavibhāga  $^2$ 

The manuscript of thus text has been found, though in a very damaged condition, in Nepal and is being edited, with a complete restoration into Sanskrit from the Thetan of all the missing passages, by me and my triend Vidhušekhara Shattār-Gatya. The author begins by commenting upon the introduct stanza of the vatie of Vasubandhu on the kārikās of Maitreys, which rums thus in Chusses:

<sup>&</sup>lt;sup>1</sup> Studies in Indian Philosophy (in Japanese) J p 359 ff. On the author of the Mahäyäna-sürülankära (Zeitschrift fur Indologie und Iranistik. VI. 2, 215). Maitreya as an historical personage (Indian studies in honor of Charles Nockwoll Lannaun, p 195 ff).

<sup>&</sup>lt;sup>2</sup> The is the actual reading of the MSS, but in the Thotson transiston we have websages, Spenit inshirs of the author of these notes and of Buddhist scholars as well must be expressed to His Holmes Richmentijs Sarma, guru of His Highness He Mahatsig to Nepal, for having succeeded in gotting the MS, of this work and having allowed me to make a copy of it.

# 恭敬善行子 能造此正論 為我等寬說 今當顯此義

and thus in Tibetan :---

বমুধ্যবর্তুরা এই দ্বীন্দর মার্ছর না

चट्टे.चोजुचोश.कृट्ट.श्रुका.चट्चा.शूचोश.ल ॥

देश्यक्षकारचे क्षेत्र प्रचर पर च ॥ देश्यक्षकारचे क्षेत्र प्रचर पर च ॥

It can be restored with the help of the quotations scattered throughout the commentary of Sthiramati in the following way:

[tacch s'āstrasyāsyu pranctāram abhyarhya sugatātma]am vaktāram cāsmadādibhyo yatisye 'rthavvecane].

Here Sthiramati makes the following remarks:

asya kārikāšāstrasyā rya mastreyah praņetā . . . . . vaktāram iti ; . . . . sa punar āryāsanga ; tatrāryamas treyādhisthānād dharme[na paramparayā kāstram idam prādurbhūtam ucyate]

(II) Then Harbhadra, m his big Abhvannayalankarāloka, which as at the same time the commentary upon the Astashasrika-prajhapāramitā and the Abhvannayalankara-kārikā of Maitreva, confirms that the tradition was always curren in India that Maitreya was a historical personage and writer of many treatuses; we read in fact on page 73 of my edition;<sup>2</sup>

"Visila-samusta-pavacanā" tho ladhā" dhigam" pg āryāsana-pavarukā ahulyan" pavaruktapades' p; artyke pavoruschedī darsanena gānhhiryāc oz prajāpāramsārīham unatum aikā daurmanayam auprāplas tan uddiya hir reyena Bhaqunstā prajāpāramiā-sitrom vyākhyātam abhisamavālahkārkašīkāsātrom ac krtum"

The same thing is stated in the introductory verses of the same work, where we read;

Maitreyena däyävatä Bhaganatā netum svayam sarvathā prayūāpāramstānaye sphutatarā likā krtī kārikā

<sup>3.</sup> Published in Gaskwad's Ormala Series The first volume containing the text will be out. I hope, shortly; then, a second volume will follow in which the life of Harbholda, works and the contents of the Abbisamaps will be discussed in dead and compared with the myster theorems of other schools. The instorticty of Mattreys is supported by Tib, tradition.

In this connection, it will not be out of place to refer once more to the well-known passage of Subandhu's Vāsavadattā on the meaning of which many theories have been advanced.

"Nuavatattvam iva Udduotakarasvarūvam bauddhasangitim svälankärabhusitäm." 1 The relation expressed here is not between two different works such as Mahayanasütrālankara and Mahavanabhidharmasangiti of Asanga (theory of Prof. Sylvain Levi)2 nor between the Buddhist canonical books in general and some kind of explanatory literature (theory of Prof. Lüders) \* In the first part we have quite a clear relation expressed between the Nyavasutras and a particular commentary upon it. viz., that of Uddyotakara; we must therefore logically infer that in the second case also allusion is made to some particular texts, one being the mulasutra and the other a commentary. Now, we know that although sangits is any satra beginning with the introductory formula: " evam maya krutam (" Evam maya krutam iti krtvā bhiksavo mama dharmah sangītavyah.) still no other sutra had, during the great blossoming of Mahayana, such a great diffusion and notoriety as the Prainaparamita in its various redactions. Maitreya was the first to write a commentary upon it called the Pañcavimsatisāhasrīkā prainā pāramitopadesā. bhisamayālankārakāstra, which, together with the kārikas of the Mahayanasütralankara written also by him and commented upon by Asanga, gives us a fairly good idea of what an alunkara (bauddhakāstra according to the commentator Narasimba) must have been, viz., a metrical commentary, the purpose of which was to classify, to discriminate and to harmonise the various doctrines expounded in the Mahayanasütras and to establish, at the same time, the foundations of the new dogmatics.4 And the Abhisamayalankāra enjoyed a notoriety as other texts can hardly claim. It was commented upon by Asanga, Vasubandhu, Bhadanta Vimuktisena. Arvavimuktisena. Haribhadra and it represents the foundation of the mystical theories and practices of the Yogacaras as well as of the Buddhist Tantrics of India and Tibet. Just as Subandhu refers to such a notorious work as Uddyotakara's vārttika, we should expect that in the second instance also, as I pointed out before, he alluded to some other

<sup>&</sup>lt;sup>1</sup> P. 235 (Bibl. Indica ed.).

Introduction to the translation of Asangu's füträlankära p. 16.
 Bruchstucke der Kulpanämandstikä des Kumäraläta p. 28-29

<sup>\*</sup> The more I study the works of Mastreya the greater it seems to me to have been his work. It was in fact a very difficult task to combine the often, at least apparently, contradictory statements of the Sitras, and also to give a consequential and logical order of the topics discussed in them, with so many repetitions, and such a great redundancy. Still this was necessary, when the mahkyana masters wasted to support their views with the authority of the Jaganez. The postution of Maireya is discussed by me in the introductory volume of the Abhieameys.

A manuscent of his work has been brought by me from Nepal.

and is being edited.

well-known work; the Abhisamaya quite well fulfils this condition, chiefly when we consider that the comparison imple mecessarily a philosophical work even in the second case. Nor will it be out of place to remember that the association of Uddyo-takara with the Baudhlaskstar is not absolutely arbitrary. Uddyotakara wrote his work in order to refute Difiniga and his teachings and Difininga, besides writing his teatiese on myäya, composed also a metrical commentary on the Astashharnka-pajispäramits following the model of the Abhisamaya.

## TT

## THE FIRST MENTION OF TANTRIC SCHOOLS

Very little attention has been paid up till now to Tantric literature; and yet, apart from some exceptions, the Tantras contain almost nothing which can justifiv the sweeping judgment of some scholars who maintain that they represent the most degenerated form of Indian speculation. On the other hand, after a careful study. I cannot help seeing in them one of the highest expressions of Indian mysticism which may appear to us rather strange in its outward form, chiefly because we do not always understand the symbolical language in which they are written Moreover, they are an unparalleled source of information to the ethnologist as well as to the historian, and when properly studied they will shed a great light upon some ignored aspects of Hindu civilization and upon the manifold elements of which this is the outcome. The rule once prevalent among the Tantric, viz., "kulapustakānı gopāvet" has no value to-day and a good deal of Tautric literature is accessible to scholars, which, however represent but a small part of the enormous material still awaiting publication. Its investigation is an urgent task of oriental scholarship. But not only I disagree from many of my western colleagues, so far us the general appreciation of the Tantras is concerned, but also as regards other points, and chiefly the antiquity of Tantric literature. The opinion generally accepted is that they originated about the VII century AD 2 The first objection to this theory is that many buddhist texts which were considered as sutra's and are now incorporated into the Sannipäta or Mahasannipäta class of the Chinese Canon, contain many an element which is characteristically tantric, such as mantras, their symbolic value, the acceptance of Hindu gods and goddesses, the necessity of abhi-

<sup>1</sup> This work is preserved in Chinese as well as in Tibetan and quotations from it are to be found in Abhisamayslankarāloka, Dharmasamgraha, etc.

<sup>&</sup>lt;sup>2</sup> Winternitz, Geschichte der indischen Literatur. I Band. p. 482, Kman, Der Buddhimme, II. p. 6264. But see the sound remarks by Phys-Luski in BeFFGO, XXIII. p. 317

seke, etc. But many of these taxts which, though they cannot be considered as real tantrax, show the influence of tantric ideas and rituals, were translated into Chinese before the seventh century A.D.¹ I quote as a characteristic example the Swarryaprobhāsastira which is quite tantric in its contents, formulae, and rites and which was first translated by \*Obarmakana (first half of the fifth century, A.D.) or the Mahāmāyarrafyra. But leaving aside this question which cannot be fully studied within the limits of a brief note, I wish to point out some old passages which seem to testify to the existence of Tantric schools at any early date. In Tattevaidhišnišara by Harivarman (IV cent. A.D.) and in the Mahāmāyana-sāstra by Assatga\* there is an allusion to a school called

注册 河 隆 ns ya siu mo. No definite reference is to be found in that passage to the theories peculiar to the sect; but in Harivarman's work it is said that they admitted the existence of 10 padärthes and in Madhyänärningsmusdäärnt they are quoted after the Mahewars school, and in the store they are quoted after the Mahewars school and in the finish and the first that there are no might have some connection with the supple, the relation of which have some connection with the supple, the relation of which the fluorescafe (size) can be troped as a carry data. But Kristang commenting upon the Sasadäärtrat d'Aryadeva who the fluorescafe (size) and the troped as a carry data. But Kristang commenting upon the Sasadäärtrat d'Aryadeva d'authites them with the Jääliputras, Mataputras, who are generally considered as a school of the Ningranthay, viz, the danks, and in scoordance with Eastvarman, aktivibutes sixteen topics to them. These topics as I have shown elsewhere, are the following: (a) eight derived from "heating-knowledge"

開 慧生 srutajñāna, viz., (1) astronomy and geography, (2) arithmetics, (3) medicine, (4) mantras, (5-8) four vedas; (b) eight derived from a "cultivation-mind" 修 慧生 (bhāvanā l) (1-6) cultivation of the six divine practices, (7) cultivation of the vorship of the stars, planets, gods, (8) cultivation of the practice of the ris. We cannot say how far the information

Buddhist Texts on logic from Chinese sources, Introduction.

<sup>&</sup>lt;sup>1</sup> The evolution of the text of the Āryamafjuśrimūla-tantra, well illustrated by Prof. Przyluski, art. cit., is highly instructive. Nevn if many tantras were originally considered as effitus and many among them always retained the form of a Sagaki, there is no doubt that, so far as their contents are concerned, they must be ranged among the Tantras.

A. For this work, arxious redactions of whoth are known, see S. Levi, A.

JA., 1915, p. 19.

Both the works are lost in Sanskrit, but their translation is to be found in the Chinese Canon.

The passages have been already referred to by me in: Preddanāga

of Ki-tsang is right, but the fact remains that these padārthas have nothing in common with the Jainas, nor do they show any relation with the sixteen padārthas of the Nyayasūtras. On the other hand the reference to mentras, medicine, worship' of stars, planets, etc. even if not necessarily suggesting some connection with the Tantras, points out, at least, some practices or doctrines which were not absent in them Even the allusion to the four Vedas does not exclude the possibility that we are here concerned with some reference to Tantric doctrines It is known, in fact, that though the Tantras were sometimes considered as being heterodox, brilga, stall the Tantrics themselves generally admitted the authority of the Vedas, four in number, and often recognising the supremacy of the Atharvaved over the others)\* though assuming that in the kaliyuga the Tantras afford the easiest way to mukin.

But is there any positive ground to affirm that in the Myssismo: "Nygiarsuma "Nygiarsuma, we have undoubtedly a reference to Tantre schools? Let us begin with the Szuma or Saumpa. Though we cannot gather very much from the Izrica, still, reference to them can be found an Sanskit literature and of such a kind as to support our view.

quoted the Saumya as a bāhya addhānta (Nyāyadhāsya quoted the Saumya as a bāhya addhānta (Nyāyadarsana ed. by Gangānātha Jha, Chowkhamba Sanskrit Series p. 30) Cārvākasauma saugala-jinā-rhata-digambarāh sad bāhyāh siddhāntāk

(b) na vindantı pudam süntam sailünüm niskalam gurum sammadıyantı ye kecit papam <sup>8</sup> Vaisesikän talih ill buudiha to arihanta ye soma siddhantavadinah | mimamsah pascarotus ca vamasidhantadaksınah ||

This passage is taken from the Akulavintantus revealed by Minanatha and preserved in a MS. in the Durbar Library of Katimandu. The passage was first, communicated to me by Prof. Bagchi and, then, by His Holmess Hemanija Sarmi (garas to His Highness the Mahtarija of Nepal) sole knowledge of the Tantric librariur I had the privilege had not be knowledge of the Tantric librariur I had the privilege with the season of the protions of the Tantrasta of Abhinav Sayuta He also pointed out to me in a long letter from Katimadu dated 20. X. 26 the two commentares on the Prabodhacandrodaya which are not accessible to me and are reproduced in the following item as written in his letter.

3 This is the reading of His Holiness Sri Hemaraja Sarma; but Prof. Bagolii reads nyāya. On Somusudhānia ep. GOPINATH RAO, Hindu Ioonography, Vol. II, p I, pp. 20 and 24.

<sup>1</sup> Even the number 15, as is known, plays a great part in Tantric lors on y: Trace ds cuito lunare nell. Indea antica Rivista di Stud Orientali, Roma, 1930.

<sup>&</sup>lt;sup>2</sup> Cfr. Rudrayamala p. 130, 130, 146. On the non-veduc character of Tantrus, see Lakemidhara's soom on Saundaryalahari, p. 81.

<sup>3</sup> This is the reading of His Hollonge Sci. Haracter.

## (c) Prabodhacandrodoya. Act. III

narāsihimālākṛtacārubhūṣaṇaḥ smasānavāsī nṛkapālabhojanah |

pasyāmi yogāñjanasuddhacaksusā jagan mitho bhinnam ahhinnam isvurāt []....

mastiskäntravasäbhi püritamahämämsähutir juhvatäm vahnau brahmakapälakai pitasuräpänena nak päranä

sadyah krtakuthorakanthavigalatkiläladhirojiyalair arcyo nan purusopahārabalibhir devo mahābhairavah || . . . .

etat karālakaravālanskritakanihanāloccaladbahulaphenilabudbudaughash |

särdham damaddamarudänkṛtidhülabhülavargena bhargagṛhinim rudhıraır dhinomi || . . . .

ıdam pavitram amrtam piyatim bhavubhesajam | pakupāsasamucchedakāraņam bhairavoditam ||

Rucibrarikā; sakomayā vartate Somah tava siddhāmītibomasiddhīmla, gaurimhādivābhyām bhairveābhis atmirt bhyām vedamīraparityāgīyāsurān pravurtayatsun ayım valdhāmlah kṛlak, Karpārumafjariyarsuhe Bhairvañanda etad upajīuko'py tadumhatibhedabhinnuh tatraiva fākiniyaksiniprabhrinām antashāmuh.

Prakösalikā; asmākam brahmarandhropulakstlah kapālo brahmakapālah Tantra kulpītā nidyamāni surā cāndrī, tasyāh pānena pāranā vratu-samāptih, ata evāyrm Umayā suhitah somas tasya siddhāntuh

Candrikā; Umayā sahıtalı sonto yathā Pārvatyā saha Katlāse modate, tadvad bhaktalı pārvatitulyakāntayā sahıta isvaraveşadhārī san Katlāse sa tva modate.

(d) Then in the Agamapramānya by Yāmunācarya, the guru of Ramānuja, we read the following passage which supports our view even more evidently than the others. (Reprint from "The Pandit" p. 26.)

saivam pāAupatam caiva bauddham apy ārhataņ tathā | kārpālam paikarātrum esty evam pāsundatā mrīteh || vezidikam tānistrisam esti vidāhāpakaranāa ap | yamyute paikurātrasya vedobāhyaturniscayah || saivum pādupatam axumyam tāpudam ca caturvidham || tantrubhadah samudāistah sainkaram na samācarel ||

There is, therefore, no doubt that the Somasiddhants represented a Tantrio sect, to be identified with the Kapilikas, and that the existence of this school can be proved as early as the time of Harivarman and Asanga. It appears also from the commenteries upon Prabothae, that they practised rites similar to those of the sahajiya sect. They were in the beginning and remained all throughout a Saiva sect, but traces of contamination with the Buddhist Siddhas can be found in the extant literature. In fact in the Sabaratantra we have a list of twenty-four Kapalikas, 12 gurus, or rather 12 forms of Siva as guru, and 12 sisyas; among these it is easy to recognize the names of well-known Siddhas as they appear in the Buddhist tradition; Nagarjuna, Minanatha, Carpata This can easily be seen in the following table taken from the Sabaratantra 1.

## 

	List	OF.	THE	24	KAP.	LIKAS
١	Admātha				13	nāgārjuna
2	anādi				14	ja/labharata.
3	kāla				15	hariécandia
4	atikalaka.				16	satyanātha
5	karāla				17	minenatha
6	vikarála				18	goraksa
7	mahākala.				19	carputa
8	kālabbara vanātba				20	avadya
9	batuka				21	VAITEGVA
10	bhütenatha				22	kanthadhārin
11	viranátha				23	jalandhara
12	árikantha				24	malavārjuna

As regards the other part of the term na ya siu mo which may go back to a form nyaya 2 or naya it is known that name was the name of a very old section or group of Tantras I refer here to the Nayasutra which is a section of the Niévāsatattrasambută, an old manuscript of which, written in the transitional gupta-characters, is preserved in the Durbar Library of Nepal and has been described by Haraprasada Sastri in his Nepal Catalogue.2

TIT

## ON THE NAMES MINANATHA AND MATSYENDRANATHA

It is known that one of the greatest Siddhas, viz., those mystics who tried to harmonise Mahāyāna Buddhism and Hinduism and are supposed to have been eighty-four in number, is said to have been Matsyendranatha. In the Tibetan Grubt'ob as well as in the old Bengali Goraksavijaya some legends

<sup>1</sup> The Sabaratantra does not seem to be very old, but it is highly interesting for the study of Indian folklore since it contains formulae interesting to the secury of moutan forstores ones it contains bymanise in Arabic and reference to a Molumedan Siddha called Ismail Pr-Ismail yogin. Edition in Hengel characters in the monthly magazine Arquodays. The same passage with better readings is quoted in Goraksa-addhatasangraha p. 16-19, where the interesting information is given that the 24 kāpālikās were created by Natha (Siva) in order to combat the twenty-four avateras of Visnu, when Parasurama had killed the

keatriyas.

The two forms, naya and nyūya, as is known can be interchanged. So far as the Chinese transcription is concerned the character corresponds to ja, jā, jāā fife nna fia na (in pracritisms from ser. nwa). The Navottara has recently been the object of a dibgent study by Prof. Bagohi, IHQ. Vol. V, p. 764. \* Vol. I. P. 138 ff.

are narrated for the explanation of this strange name; 1 but it seems natural to suppose that these traditions do not contain anything historical, but were rather invented on the basis of the name itself. In other words, it is the name which gave birth to the legend and not a particular event which was the origin of the name. Moreover, it is a surprising fact that Matsvendranatha and Minanatha are mere synonyms and, strange enough, in some lists one is said to have been the son of the other. 2 So it may be doubted whether in this case we are concerned with personal names or rather with a title or appellative of a special class of vogs the Tantric schools there were special designations for certain stages reached by the initiated or for particular conditions of life that the adepts had chosen; so we have the avadhūta in the Saiva sects, the Vairacarva or the Purnapraina in the Buddhist schools; names like these are essentially initiation names showing a well-defined stage of holiness, though they may become-and in fact later on became-personal names. That this was the case with the name Matsvendranatha seems to be indicated by the fact that the Grubt'ob considers Matsyendra as another name for Lui-pa, the adisiddhacarya of the Carvacarvaviniscava, while in the lists of the Varnanaratnakara and of the Hathayogapradipika no mention is to be found of Luipa though there is mention of Matsvendranatha. But better support to our view comes from the Kashmiri tradition where the name Macchinda, 8 that is the prakrit or anabhramsa form of scr. Matsyendra is clearly considered as an appellative of some siddhas who have reached a particular stage in the mystic realization. We read, in fact, in the Tantrāloka of Abhinavagupta, Vol. I, p. 25.

<sup>1</sup> The legend referred to here is the same as that of Jopah. It is at present impossible to state whether we have here the trace of some influence exercised by Semitic traditions on our school, or a quite independent form of the legend, which, as I remember to have read in DUSSAUD Civilizations Préhelleniques, seems to have been known also to the Creteans. (p. PISCHEL Der Ursprung des christ. Fischsymbol Sitz-ungsberichte d. Preuss. Akademie, 1905. LAUFER Die Bruža Sprache. p. 11. 12 (reprint). There is agreement between Goraksavijaya and Grub t'ob, hie of Minapāda; but the legend, here related in conrection with Lupada, Macchindra, Matsyendra, is different. Cp. the German translation of the Grub l'ob by Grinwedel in Bassler Archiv. Moreover is should be noted that while Minanatha is said to have been a faberis should be noted that while Minanthus is said to have been a fisher-man from Kāmartpa, (Prub.) of and Bha yoloop below iden. translated of the control of the property of th

<sup>3</sup> So also Macchindra in the Mangalāstaka attributed to Kālidāsa on which en. Gokhale. The Mangalāstaka of K., I.H.Q., I. p. 739.

rāgārunam granthibilāvakīrnam yo jālam ātānavitānavītti | kalombhstam bāhyapathe cakāra

stän me sa macchandavibhuh prasannah ||

Here the commentator Rajanaka Jayadratha first quotes the following verse -

macchāh pākāh samākhyātāk capalāk cittav) ttavas 🖡 cheditās iu yadā tena macchandas tena kīrtītah ||

And then comments . " pāśakhandanasvahhāvo macchanda eva." It is, therefore, evident that at the time of Abhinavagupta the name matsyendra, apabhramsa: macchinda, marchanda was a mere appellative for some Siddhas; the possibility that it was a personal name seems to be excluded by the artificial legend invented to explain its origin and by the evident symbolic meaning of the word matsya, maccha interpreted by the Kashmiri school as pasa or indrini As regards this last point the saiva tradition quite agrees with the buddhist according to which mina has also a technical and mystical meaning; we read in fact in the commentary upon the Catuspithatantra called Amitapada by Durlayacandra (third patala); prajūūmakaraminakair iti sarvabhā vānām nek vabhāvatā pravijā tavā ca sarrendriyans pranimi ina merkaraminakair vyapadyante its sadharmyat praziawa makaraminayate. It is also not out of place to note that in the Mahakanlangnaya we find the form Macchyaghnapāda (Nepal Cutal 11, p. 32, 33), which tests upon the meaning of the name as explained by the Kashmiri tradition The hypothesis is therefore, possible that the title matsuendra or its synonym was first given to Lui-pa, as it is stated by the Tibetan tradition, and subsequently taken by some of his followers assuming the definite character of a title or appellative. This evolution was already accomplished at the time of Abhmavagupta (X-XI see ) This fact is not without a bearing upon the chronology of the siddhas as it shows that the first man to whom this appellative was given must have been much older than Abhmavagupta II the Tibetan tradition is right in identifying Lui-pi with Matayendra we could have a terminus a quo as regards the age of this siddha: in fact, I find reference to Lui-pā in the Abhisamavamanjari of Santiraksita. fol 3, 1 tatah kava... (?) drayum krtvā jāānacakravibhāvanam iti Luyi- padokteh

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## THE GORAKSASAMBITA AND THE AVADROTAGITA

Goraksasamhitā is one of the works attributed to Goraksa: it is known to me only through the edition in Bengali characters by Prasannakumara Kaviratna (saka samv. 1897).

It is composed of five amsas, the first four of which are nothing but a manual of hathayoga in which all the various mudrās, āsanas, dhāranās, etc., are described; apart some few exceptions, it does not contain anything new or what we do not find in other manuals of this kind, such as the Hathayogapradipikā, the Gherandasamhitā, the Sivasamhita, the Kalltantra, etc. But the fifth améa is quite different in its contents; it is in fact a short philosophical treatise in the form of the gita-literature, well written and extremely interesting for those who want to know the dogmatical and philosophical fundaments of these later mystical schools. It is evident that it has no connection with the rest of the work : while the other four parts are chiefly concerned with the yoga praxis, here we have an exposition of the absolute identity of the individual soul with the all; and this all is described, just like the dharmadhatu of later Buddhist schools, as nirvikalpa, gaganopama, sūnya. The supreme reality is nirālambana, but the alambanas, which are mere kalpanas, may have a pure conventional value in so far as the vogins must have recourse to them in their progressive realization of the truth, but without abhimiveka as they do not correspond to anything real 1 (cfr. the Yogacara point of view as expounded for instance in the Abhisamayalankaraloka) But, in fact, the truth or the absolute is sahaya, inborn. In one word, we find here the ideas that are common to the Siddhas and to the Saiva as well as to the Buddhist Tantras belonging to the same period.

Now it is doubtful whether this section belonged to the original reduction of the Gorak-assamhita or was added to it later. I have no access to other editions of the work or to manuscripts of it but this much I can say, viz. that the existence

## 1 Cr. Goraksasanhità 121.

sükşmatvät tudadrsyän, nirgunatväc 'ca yogshkik älambanäd: yat proktam kramäd älambanam bhavet

The theory of the Abbissimsya is just based upon an extremely subtle classification of the progressive dimbanas which are the support of the meditation of the Bodhisativa aiming at the support of the meditation of the Bodhisativa aiming at the support of the progressive dimbana and the progressive dimbanas and the support of the suppo

<sup>2</sup> V. 90

of the fifth améa as an independent work 1 is a well established fact. This fifth part is nothing but the Avadhūtagītā, which is quoted as a distinct work in Goraksasiddhantasangraha p. 33 and related to the Goraksa-school But this attribution is not beyond contention: in fact in the printed text? we read the colonhon : iti śridattätreyakrtaradhūtagitā and this attribution is general in the manuscript redaction, as I can guess from the bibliographical material at my disposal.8 I must add that in a copy of the same work preserved in the Durbar Library of Katmandu, it is styled "Dattatreyagoraksasamvada." This fact while confirming the hypothesis that Dattatreva was an historical personage, seems to show some connection between his doctrines and those of Goraksa and should not therefore pass unnoticed by future investigators of the religious sects and currents of aucient India. I must add in this connection that according to a passage of the Tantramaharnava quoted in Goraksasiddhantasangraha (p. 44) Datlatreya is called Mahanatha and included among the eighty-four siddhas. This proves once more the complexity of this school called the Siddhas Though admitting some general principles accepted by all and which, therefore, represented a link among the followers of the sect, still, this school, as it always happened in India, was divided very soon into a series of individual interpretators and therefore into groups and subgroups, which we are no longer in a position to discriminate. This fact is well pointed out by the different lists of the Siddhas handed down to us, which are Buddhist (Grub t'ob.; Bka' babs bdun ldan, Taranatha, gSum pa mk'an po.) and Saiva (Varnanaratnākara, Hathayogapradīpikā) These Siddhas were not only claimed as their own masters by each of the two greatest currents of thought of medieval India, but in each current the various sampradayas had their own list of Siddhas. This explains why so much discrepancy as regards their names is to be found among the lists that we have at our disposal and which can only be explained if we assume that they came to us from various sects representing particular tendencies.

## A SANSKRIT WORK BY SIDDRA CARPATI

Carpati is one of the eighty-four Siddhas His biography is preserved in the Grub t'ob where his name is given in the

But the 33 first verses of the fifth améa of the Samhula are not in the gits.

2 By the Nirnay assignta Press; but the same work is also included in the Brhatstotrasantssgara There is another Avadhütagitä in Bhägavata-

See AUFRICHT'S Catalogue s v
See BARNETT—Hindu gods and Heroes p. 114.

The number 84 induces suspicion; it is in fact one of the mys-

corrupt form Capari, in the bKa' babe bdun idan in the History of Tarinatha p 106 and in gSun p an's up o i. 129. He is to be found also in the list of the Varpanartankara and in that of the Hatshayogs. While in Nepal I had the rare privilege of examining the rich collection of manuscripts gathered with great competence by His Honour the General Kesar Sham Sher Jung Bahadur One of these manuscripts Contains a small work by Carpati or rather a commentary—which is in fact a mere bālabodhini—on a stoira, written by him. Since no other work from the pon of this Siddha is known to us it is perhaps interesting to give some information about it. The stotra is called "Detumanusyustoira" and it is a hymn to Avalokties'vara. Lokes'vara. He seems to be in circulation oven now among the Buddhist community of Nepal. That the small stotra is really by Carpați is stated by the commentator at the very beginning of his ippozit

karunāsinyatābhinnamūrtim² advayam uttamam tratāram sarvatokānām name lokesvaragurum srimanmeghamahāpātrupreraņād vihitā mayā srišlasāgareneyam carpatistutuippani

Menton of the same is to be found also in the commentary on verse 16 "magia Carpatina" and verse 22 "magia Carpatina". At the end of the stora lockedvara is called potalakācalanāta. As a whole the stora, neither for its style nor for its contents, seems to be particularly interesting. The only thing which I like to quote here is the allusion to magical and alchemic practices which are quite characteristic of the literature connected with the Siddhas.

atijanetų ddi, he bhagavan yasya tvam tusyasi tasyūsijanagutikāpādukasidahih sidhyati, na kevalam atiyanagutikāpādukasid dhir eva sidhyati, sidahausadhimanimantravidhar api sidhyati na kevalam.....sidhyati yakṣastrī ca tasya sidhyati, na kevalam ete, purupraveso 'pi.

As we saw before (p. 132) he is included by the author of the Goraksasiddhāntasangraha among the 24 Kāpālikas.

This Siddha is not unknown in Indian tradition because we find mention of him in the Vamaswall of the Chamba State edited by Doctor Vocat. (Antiquities of Chambā State 1, 931 ff.) According to this source he was held in high esteem by king Sahila, who lived in the tenth century and with whom the real history of Chamba State begins. There is meason, as Doctor Vogel also points out, for rejecting this state-

tical numbers in Buddhism as well as in the Tantras (12 zodiscal signs × seven planets ?)

1 On the meaning of the name of GRÜNWEDEL, Edelateinstimms p.

<sup>120</sup> note.

2 It is known that bodhicstte in later mahäyāna and in Buddhist

<sup>2</sup> It is known that bodhicuta in later mahāyāna and in Buddhis Tantras is twofold: it is the union of karunā and sūnyatā.

ment, which is indirectly confirmed by the Grub tob, where the connection of Carpati with a king of Campaka is referred to. The mention of the same Siddha in an inscription of Ladak is too doubtful to be used for chronological purposes. (France Antiquities of Induan Tibet II. p. 274.)

If this synchronism is exact, and the data furnished by the bKa: abab bits lidan are based upon some historical tradition, we can fix the date of Minanātha by that of Carpati because Mina is said to have been the disciple of Carpati.

## ۷I

# A SANSKRIT BIOGRAPHY OF THE SIDDHAS AND SOME QUESTIONS CONNECTED WITH NAGARJUNA

With the exception of the lists contained in the Varnanaratnakara and in the Hathavogapradipika and some scattered allusions to particular Siddhas to be found in the Goraksasiddhantasangraha no connected account of these Siddhay is known to me to have been preserved in Sanskrit Still if we are to judge from the Tibetan tradition some biographies there must have been. The Grub t'ob which has been translated by Grunwedel is the Tibeten rendering of a Sanskrit original the author of which was a pupil of Valrasana. Taranatha, according to the statement of Sum pa mk'an po 1 drew his information from the works of Indradatta, Indrabhadra, and Bhataghadri, a statement which is supported by Taranatha himself 2 Unfortunately none of these works has come down to us. This is a matter of regret because if such treatises do not seem to have been very important from the philosophical or literary point of view, still, if we are to judge from the Tibetan translations they contained much useful historical and geographical information But during my last visit to Nepal I was lucky enough to find a palm-leaf fragment of such a work. It belongs to the collection of His Honour the General Kesar Sham Sher Jung Bahadur Rana who most graciously allowed me to take a copy of the same. For this and for having shown me the treasures contained in his rich collection of manuscripts I express my most sincere thanks to him

The booklet is a mere fragment, the style of which is defective perhaps it was a kind of gurapromptor, written without literary pretension by some disciple. But it shows a division into Ammayas or mysteal schools, just as we find is the bKa' babs bdun Idan. with which it shows to have many points of contact, as remarked by me in the notes. This is

<sup>1</sup> See dPag beam ijon bzang p 131. Geschichte p 281 Keemendra-bhadra of Tratafitha is, perhaps, the same as Indrabhadra.
2 P. 123. When we compare bKa' ubab Ldun idan, life of Mastri, with our fragment, we shall easily perceive that they are strictly related.

a new proof that the Buddhist tantas and the later development of mahyara. Buddhism were divided into a great number of tendencies each one of which had its masters and its acknowledged texts. The classification of this maternal according to the various amnayas must be the first task of the scholars, when they begin to investigate this neglected branch of Indian mysticiam, which I should like to call rather Indian gnosticism, insamuch as one of its fundamental features is the attempt to harmonize Buddhist and Hindu religion into a kind of syncretism chiefly expounded by the Tantas of

The second point which deserves mention is that we find here some information about Nagariuna. We shall discuss later on whether this Nagarjuna is the madhyamika teacher or another. Practically, all the information is about his birthplace and his parents, because the author seems to consider him as chiefly a second Buddha, the founder of the mystical school. On the other hand, some other well-known Siddha, like Advayavaira with whom the fragment seems chiefly concerned, is considered as a manifestation of Nagarjuna or rather of his vajrakāya. If, in fact, we read the fragment carefully, two things will appear: (a) that many Siddhas are held to be the incarnation of one and the same personage-in this case Nagarlung. (b) that every master took a different name as soon as he was initiated to a special school, so that one and the same man may in fact be known under various names As regards the first point our text states that Nagariuna was born in Karahataka according to a prophecy of Buddha, but then, another of his incarnations vuakrtad aparam matam [nama] is referred to, viz., that as Damodara who, as said at page 152 was born in Kapilavastu and who, according to fragment VI is Advayavajra. Moreover, he appears as Ratnamati, and as Advayavajra, who, if we are to follow the marginal gloss, is also called in the text by the very name "Nagarjuna." All these various names are dependent on the different adhisthanas or vidhis or anugrahas, and deserve our notice because it appears evident, that the school from which our text issued, believed in the theory of the periodical reincarnation of the same bodhisattva as it is the actual dogma of Tibet.

As to the second point we find, for instance, that Dâmodra, after having completed his studies of the Sammatiya (Sammitiya) nikkya receives the name Maitrigupta, while later on when he has the direct vaion of Vajrayogini [† p. 153 āikkād darkanam bhavati only, but p. 149 wajrayoginyā-daikhida] he becomes Advayavajra. Advayavajra hida. This fact is proved by his works preserved in the baTan agyur in which we find his name in different forms: Avadhūtipā, Maitrigupta, Advayavajra. This implies that the various masters took different names, according to the various abhi-

sékas received or the sampradāyas to which they were initiated. This system, which was introduced into and is up to this time practised in the monasteries of Tibet, complicates the real attribution of many mahayana works of later time to their real authors Moreover, these names have a symbolical meaning or denote a particular stage of knowledge or of saintliness and therefore are likely to have been given to various individuals ' So we have at least two Vimuktisena's, two Aryadevas, etc. Such also are the names in which the word sura appears "ayam bodhicillasuro danasuro silasurah viryasurah dhyanasurah prajuasurah samadhisurah" (Siksasamuccava p 16); "Kalyanamstresu surasamjna" (1b. p. 36, etc.) or those composed with naga; of Mahanaga is one of the adjectives used for those who are present to a sangiti The word is so explained by Haribhadra (p. 11): traividyaditvavisista dharmadhigamayogan maha pradhanabhavena, mahanaga or (p. 12) klešasangrāmavijayıtvān mahānāga.

The Muhāpēn jūšpārumulāšātav by Nāgarļuna also comments (Tasho edition. Vol XXV. p. 81): "muhā means great, na=-not; gu==sin Or also: nāga means either dragon or elephant. These five thousand arhata have a far greater power than all other arhats and therefore are called dragons or elephants. The dragons have great power of going in water; the elephants have great power of marching on the

hill)..

These two points deserve montion. We know, in fact, that in the brilan agour there is a great number of Tantric treaties attributed to Nagarjuna. More than that; the same emprading of Nagarjuna as known to us from Chinese sources, the most ancient now accessible to us, is met with in the Tubstan tradition concerning the Tantric Scotz. I mean to say that we find the series: Nagarjuna, Rahulabhadra Aryadewa se the authors of many treatiese absolutely tantric and describing rituals, studrās, kramas, quite peculiar to the tantric sects but which, though based generally upon the dogmatical teachings of the Madhyamika school cannot be considered as old as the great Acarra Nagarjuna.

This implies that some masters of the Siddha-samprodisps considered themselves or were considered by their disciples at the manifestation (Tib. rnom o'prul,) of the first sctryas as fully widened by our text and were given the same name. This fact explains quite well the contamination which we may trace between the bographical accounts of the older masters as given in the Chinese sources and those preserved in the Tibetan radition I ntse way we are also able to understand why

<sup>1</sup> That some names were peculiar to some schools only has been already noted by Laurer, Bruza Sprache p. 9, n. 2.

the various Siddhas are known to our sources under different names, while the information about them is very often contradictory. Rahula in the Grub t'ob is a sudra from Kamarupa, but there also Rahulabhadra is the name of Saraha; on the other hand, in the bKa' babs bdun ldan. Rahulabhadra is a brahmana of Odivisa. Aryadeva is another name for Vairaginatha or Karnari or Kanheri which is explained as "kana" and gave origin to a legend almost the same as that related in connection with the old Kanadeva-Aiyadeva of the Chinese tradition. Moreover, we have one Nagariuna or Nagabodhi (Grub t'ob 16), one Nagabodhi who according to Taranatha (p 86) was the disciple of Nagarjuna, and to the series we may add the Nagahvaya of the Lankavatara 1 and Manjusrimulakalpa and the Nagariunagarbha, author of a medical work 2 That there were two Nagariunas has been clearly pointed out by Dr. Benoytesh Bhattacarya 3 and this view is supported by the comparative study of the material at our disposal, the remarks made above and even by the brahminical tradition.4 The relation between the various masters seems also to lead to the same conclusions. The bKa' babs considers Rahulabhadra as the master of Nagariuna, but this is contradicted by the statement of the Chinese sources which show Rahulabhadra as the disciple of Nagariuna.5 In the same book, instead of Aryadeva, Savari is given as his disciple but this Savari is at the same time called at p. 20 Saraha the junior and we saw that according to the Grub to'b Saraha is the same as Rahulabhadra. In the "history of Buddhism"

<sup>1</sup> On these passages op. Walleben The life of Nögörjuna in "Hirth anniversary volume".

E CORDIER, Catalogue. 111 p. 462.

<sup>3</sup> Introduction to the Sadhanamala p. XLV ff.

<sup>4</sup> Goraksasiddhantasangraha, which knows Malayarjuna, p. 19,

Nēgārjuna, Sahasrērjuna p. 44.
 Ui, Studies in Indian philosophy (in Japanese) p. 341-354.
 The old Rāhulabhādra is the author of the Prajñāpāramitāstotra which is published in the beginning of the Astasāhasrıkāprajnāpāramıts. The authorship of this stotra is beyond contention (of. Journal and Pro-

ceedings R.A.S.B., 1910 p. 425).

As regards the antiquity of that small work no doubt is possible, inasmuch as it is incorporated in the Ta che tu lun, the Mahapramaparaassumon as it as moorporated in the 1s one to mu, can Mahhiprajhapharini middlaters, the Commentary upon the Satesabarrishprajhapharinita This quotation proves that the literary activity of Rabulabhadra began when his meaker was still allow. Further precision as regards his time is derived from the fact that verses from him, as pointed out by Ul, are to be found in Stdrimmatis' Mahyakavadrafarkalkatara and ot, are to be sound in Stairsmans s manayanavatarasseastra and Assanga's works. I must add that he is quoted also by Vasubandhu in his Praitsyaamsupidaeibhaaga a fragment of which has been brought by me from Nepal and is being edited in J.R.A.S.

In the Chinese biographical accounts no mention is made of Nigar-

juna's guru. He learns the Mahayana from the Nagas, but Rahula or

we have also Rāhula as the first master, then Nāgārjuna, then Āryadeva, Nāgabodhi and Nāgāhvaya. In the Grub tob the synchronism is still different We have in fact the following succession; (for which op. also CORDIER, Cat., III, p. 127).

Here we are on a better ground; in fact, we know that indrabhüti is connected with Padmasambhava whose time is relatively known (he went to Tibet towards the end of the first half of VIII century A.D.). On the other hand the relation with York the ablemits, stated here, shows that the Siddha Nagarjuna, whose name and fame were also known to Albertint during he travels in India, is numitatkeably referred to. So that we can salely assume with Doctor Benotytosh Bhatthedryn that the Alchemist or Siddha Nagarjuna lived in the VII century A.D. But even then, we cannot state whether the Alchemist Nagarjuna is the same as the author of many tantric works preserved under his name in the baffan agyur. That the Siddhas were all connected with the rasseficiates or alchemy,\* there is no doubt, but considering the long series of names beginning with Naga which we find at this time and in the same school we

Aryadeva is given as his disciple. We have therefore these two different

<sup>1</sup> In our text also Sabara receives the initiation from the Siddha Nagiryana, and if we are to judge from what is written at p. 149 he is also called Saraha.

<sup>2</sup> But the statement of Albertini (who vanted India about 1020 A.D.) that Nagirjuan the albemius, laved about one centrary before his time cannot be accepted; in fact allusion to Nagarjuna can be traced as early as the VIII century (Journ, Pesscharft, Windsek). So the conclusion seems mevitable that Albertini's Nagarjuna is the same as that of whom alluson is made in our Sanakrist fragmont.

<sup>8</sup> I refer to the biographies of the Grub tob as well as to the fact that many books of medicine or alchemy have the name Sliddha appended to

cannot advance any definite theory until the works preserved in the bdTanagyur are comparatively studied and all the evidences preserved, chiefly in Tibet, investigated. Moreover the guruparampara as given in our text points out the existence of another master called Nagariquas. In fact, though our fragment is far from being very clear, it seems almost certain that he follows this order

Nāgārjuna

Śabara

Advayavajra (Dāmodara, Maitrīgupta)

The latter is connected with Sagara, Ratnakaraśanti Naropā, etc. The dates of Ratnākarasanti, Naropā (about whom there is a large literature in Tibetan) and Advayavajra are known. This synchronism leads to the conclusion that the Nagariuna here referred to must have flourished about the beginning of the X century A.D. This agrees, as we saw, with a statement contained in Alberuni's Travels. So we have three different sets of texts which seem to have preserved information about three different masters equally known as Nagarjuna: (a) Chinese documents referring to the Madhyamika teacher, (b) Grub t'ob probably referring to the Siddha Nagarjuna, (c) our text concerned with another tantric Nagarjuna. One could suppose that these two sources are connected with one and the same teacher; but this doubt seems hardly possible because the synchronism with other masters given in both texts, unmistakably shows that we are concerned with two different periods. We may therefore conclude that there were various, more than two Buddhist teachers called Nagarjuna or with some similar name, who lived at a different time, though we are not yet in a condition to state what are the works preserved in Tibetan which may be ascribed to one or to the other of these writers known as Nagarjuna, Nagabodhi, Nagahvaya, Nagarjunagarbha, because the accounts and the tradition concerning them are confused. Anyhow the fact seems certain that the tantric works as a whole have no connection whatsoever with the founder of the Madhyamika doctrine. This will appear evident when the various treatises attributed to him will be investigated. But from the study of the commentary upon the Guhyasamājatantra-to speak of one of the most prominent works circulating under his nameit appears evident that this is a later work. It insists upon the tantric system of the Yoginis, perhaps introduced from

their title—Cf. Siddhiyoga, Siddhasāranighantu of Visnugupta, Siddhasārananhtā of Ravigupta (Nepalese Catalogue by Haraprasāda Shāstrī X. ff.).

Uddiyana, and it begins with an elaborate discussion upon the abshabina abidsheys and yragojana of the Guhyasamāja, that is with topies that we never meet in the commentary—literature before the time of Dharmakirti Morsover the general dog-matical theories underlying the work are chiefly Yogastra more than Madhyamaka and Arya Maitreya is quoted there, which fact is sufficient to dispel any doubt as regards the necessity of considering the author of this commentary as quite different from the Madhyamika teacher because it is known that Maitreya commented upon the Bhavasahrkrinit [MaTan agyur, mdo, XVII, CORDIES. \*\*!datoque\*\* III, 295] written by Nāgarjuna while the first kārikās of the Madhyamikatrikās were commented upon by Sasāga, the disciple and younger contemporary of Maitreya.

What I have said explains also the difference which we find in our sources as regards the birth-place of Nagarjuna. Kumārajīva in his life of Nagārjuna 1 just as the book of the tradition of the law translated by Ki Kia ve 2, states, that he was born in South India, without specifying the place; according to Yuan Chwang he was of South Kośala. bKa' babs bdun ldan says that Vidarbha in the south was his birth-place. These sources refer perhaps to one and the same Nagarjuna, viz , the Madhyamika teacher The Grub t'ob, on the other hand, tells us that the birth-place of Nagariuna was Kahora 4 This second group refers undoubtedly to the Siddha Nagariuna, who is also nearer in time to the compilers of the works in which he is mentioned. Our text speaks of Karahāṭaka. In this connection, I must refer to another source also; I mean the Mahameghasutra which was translated into Chinese for the first time by \*Dharmaksema

大豆無 Mand 221 A.D. under the title 大方等大豆無 Mahavaipulyamahāmegha-asamjifa-as

<sup>1</sup> For its contents cfr. Walleber. art. cst. and Walters, Travels, 11, 20 ff.
2 Jbud 3 Cfr Walters, Travels 11, p. 204.

<sup>4</sup> Modern Karad in the district of Sustars; cp. for references S. Levi Le Catalogue des yakeas dons la Mahāmāyāri, J. A. 1915, p. 93 ff. 5 Le sversions chinoises du Milindapañha BEFEO, 1924, p. 218 ff.

different redactions of the same work. In the 37 skandha there is a prophecy in which the Buddha says that after his nirvana the time will come when a bhiksu is to preach again the doctrine and protect the declining law. This passage has been fully translated by M. Démieville. It says that 1200 years after the nirvana the great bhiksu will appear in South India, at the time of a king called Satavāhana So to p'o ho na. He will be born in the kingdom of Siu lai ch'a Surastra, in a village called flower-garland, (for which M.

Démieville proposes Kusumamālā or Sumanamālā) near the "good means" (Démieville proposes : Sūpāva). This bhiksu, "this great Nagaraja" will sacrify his life in order to protect the law. No direct mention of Nagarjuna is made here; but the allusion to king Satavahans and to the sacrifice of his life of which there is mention in all the biographies of the madhyamika teacher leave very little doubt that the prophecy contained here refers to Nagariuna.

Of course the statement concerning his time, viz , that he lived 1200 years after the nirvana of Buddha is rather puzzling. because in no text such a later date is ascribed to him as can be seen from the following table.

Mahamayasütra 1 Preface of Sen-jui Account on the 760 years to the Tattvatransmission of and dhiá astra 2 the law. 530. No date, but following order · Asveghosa, Kapimala, Nagarjuna, Kānadeva, Rabula.

But if we turn to the Tibetan translation of the same work we find that the prophecy is equally contained there, though the names and the date do not agree with the Chinese text. This will appear evident from the comparison with the essential points of the passage in question as it appears in its Tibetan rendering.

(fol. 287, 6) স্থাই না ব্যাদের ব্রহমান ই বিশা

८८४.त.४.<u>ड्र. द्व</u>ेचोश.ग्री.चैंट.र्.शीवर.म्री.चेंत्र.त्.च

<sup>&</sup>lt;sup>1</sup> Taishö Edit., Vol. XII, p. 1013.
<sup>2</sup> The passage is queted also by Ki-teang in his commentary upon the Strafstra, Vol. XLII, p. 232. 3 Taishō ed., Vol. L, p. 316 ff.

First of all instead of one thousand and two hundred years after the nirrans of Buddhs, the text followed by the Tibetan translators makes him live "many hundred years after the nirrans," without further specification. As to the name of the king under whom this bhikes was to be born our Tibetan text gives the form: brywd pa gos ba, viz. canda (or tastra) + pusti or: pusta-tennans. We have here a form which we cannot at any rate consider as being equivalent to Satavāhans for which we have: dep byed or bde spyod. Nor is there any agreement as regards the country where this bhikes is supposed to be born; while the Chinese reads Surfater, in Tibetan we have the name: drain-robybob. Here the first element of the compound corresponds to "risi". As regards byibo this word is unknown to Chandra Das, but Desgodins Dictionary registers byibo as = byis pa. = boy up to 10 years, bila, kid-ora which would give a form like; ripādia

The name of the village sounds also completely different in Tibetan: byemac'enpo corresponds to mahāsikuta, mahāvāluka. Only the name of the river seems to agree in both redactions, makes adjoy corresponds to suprayogos: and this also can be the original of the Chinese 善方便 because 方便 is not only = upāyu, but also (and chiefly in logical treatises) "prayogos".

So we have no grounds for affirming that the Mahameghasūtra, in the redaction known to the Tibetan translators, contains a prophecy of Nagarjuna, the madhyamika teacher; and this quite agrees with the fact that Sum pa mk'an po quotes only two vyakuranas concerning the great acarya, as contained in the sūtra-literature I mean the Lankavatāra and the Āryamanjusrimūlakalpa The prophecy of the Lankavatāra, as shown by Prof Walleser, is to be found in the Sagathakachapter, which cannot be considered as belonging to the older reduction of the text, since it does not appear in the translation by Gunabhadra (A.D. 443) but only in those of Bodhiruci (A.D. 513.) and Siksananda (A.D. 700-704) No definite conclusion can therefore be drawn even from this passage, not only on account of its later date, but also because we do not find there the name Nagarjuna but the form Nagahvaya. Though this name is translated into Chinese as Lung-shu, used generally to render Scr. Nagarjuna 1, we cannot at all state that the compiler of this portion meant the same doctor whom we usually know as Nagarjuna; not only the Tibetan tradition, as we saw, distinguishes Nagahvaya from Nagarjuna, but the Sanscrit text itself considers Nagahvaya as a proper name, not as a designation, nāgāhvayah sa namnā.

To sum up, the biography published here does not throw any light upon the life of Nagfyuna: it is not even concerned with him, but chiefly with Advayava/ra supposed to be one of him nanifestations. But it shows at the same time how confused is the tradition concerning the great \( \tilde{a} \) doing and to work anyerous through the to infer from the mere homonymic the identity of the very many personages called Nagatrima or having some similar name. The facts here collected and the remarks made above are at any rate sufficient to prove that we must distinguish the philosopher Nagatrima from the tantrie; and this does not proclude the fact that between them a third doctor Nagatrians from Nagatrian from the state of the control of th

This distinction is so much more necessary when we remember that the date of Nagarjuna has been taken as a

point of repair for fixing the date of other works or other writers 1

> **(1**) नमो मञ्जवकाय ह

मञ्जाबन्दं प्रसास्थारी नामपाटमनन्तरम् ।

बारमसिकारासायं बच्चते समझोदयस ॥ १ ॥

संबद्धा बोधिसत्वास सिद्धासीरनुष्टासिताः।

व्यभिविकास्तरीक्षेत्रामासायक्षम इक्षते । २ ।

तचाटी धर्मचकेऽस्मिन श्रावकेः श्वारिवारितः ।

उपतस्ये स भगवान्टिप्रान्पारमिताविकस । ह ।

ततस्तान्स परित्यक्य सतवान्दक्तिकापथी ।

निर्माय धर्मधात्वाखं सब्दलं समनोरसम् ॥ ८ ॥

गायकः सायमेवाच बोधिसत्त्वास घोडणः। नायकास्वाभवद्वस्त्रौ तथास्वावपनायकाः ॥ ५ ॥

नामतस्ते निगद्यनी क्रमतो सग्रहणस्थिताः।

मक्क त् गुरूहिन् तिसदा विद्यायसकतम । ६ ॥ मैजयः क्वितिराभेश्व वक्वपातिः खराभेकः।

लोकेश्वरस्य सञ्ज्ञेशीसर्वागवस्यासस्याः। ७॥

So. for matance, when Dallana (Suéruta, ed. by Jivanuada, p. 2) tells us that Naga: juna revised Suscuts we cannot jump to the conclusion that here the Nagarjuna contemporary of Kannska is alluded to. Against this view, accepted by Jolly, we must oppose that the Tibetan and even the sink vew, accepted by Jonly, we must oppose mast the Allocast Real local real includes I facilities seen to consect the medicine rectains and the reform properties of Indian medicine to the Stdika Négérjuna. I cannot have here in Indian the sources speaking of the "Négérjuna Bodhiastwa" prescriptions. "Négérjuna Bodhiastwa" prescriptions. "Do 50; it would not necessarily to see if the next has any connection with the Nêgérjuniya-Kabantan o. 3.04h... N.R. own! has any connection with the Nêgérjuniya-Kaksaputa or Siddha-Nagarjuna Kaksaputa of which I know only a very Assequing or ongoins-nagarjum anarcaptus or under a story only a very based edition in Bengali characters odited in the monthly Magazine Artundaya. This work, as edited, has no relation with the Tibstan translation of a Kanaputa equally ascribed to Nigatjuns.

1 MSS, gra(j)nddSmankuns,

1 MSS, gra(j)nddSmankuns,

वसन्तभवचन्द्राभस्र ग्रीभासनको तिंशा । विमनप्रभक्तथा धर्मोद्दतर्ज्ञमतिकाथा<sup>1</sup>। ७। खोमगञ्जल स्थनो <sup>2</sup>मखनस्या वयाक्रमस । व्यभिवेकंततक्तेषांदला पारमितादिकम् ॥ ८ ॥ समर्प्य प्राकासिंहिन खाक्ततः प्रासनेऽसना । व्यार्थनागार्जन इति भविष्यति सञ्चासतिः ॥ १०॥ प्रवर्तवासनेगाचि धर्मचळप्रवर्तनम् । दक्तिसामयदेशोऽस्मिन् मत्तने करकाटके । ११॥ बाद्धागस्य कृति जन्म पिता चास्य चिविक्रमः। माता सावित्री वामास्य खाक्कतादपरं मतम् ॥ १२॥ दामोदरैति विख्यातो भिक्तले ग्राक्शमिचकमः। नामापरं रत्नमतिरनुग्रहविधी स्थितः । १३॥ व्याचा व्यदयवचेति वच्चयोगिन्यधिकितः। सरकः सिडिभन्नेन तदनुयाक्को भवेत ॥ १८॥ व्यस्य चान्यचात्रवे तेन काहि चनास ततः। ततः ऋतं इयसीवं पचा[ज्जगाम]⁵दर्भगम ॥ १५ ॥ रत्नमतिनाच समंवरेन्धां प्रस्थितः पनः। नेखयित्वा प्रतिकृन्दं वोधिसत्त्वस्य <sup>6</sup>धौमतः ॥ १ **६** ॥ पनां प्रतिदिनं तस्य क्रत्या नागार्जुनो रवसत्। यामे देख<sup>8</sup>पूरास्थे तु एकान्तः सुसमाहितः ॥ १०॥

<sup>1</sup> Stc. MSS But verse defective.

<sup>2</sup> Sic

See note 4, page 144

Ex. of. MSS. Skvitta; ofr. page 2x

Perhaps Naghruns se meant here; but according to the gloss Advayavajra is the man who designs the image (praticehanda) of him, for his daily pūjā. This seems impossible masmuch as the nataputra is to become Sabara the guru of Advayavajra, as shown in VI. I tis also contradicted by the Tibetan authority referred to in note 1, p. 150.

<sup>7</sup> WEVER marginal gloss.

<sup>8</sup> The reading of the MSS, seems sure; but I am unable to locate this place in Varendra.

जोको नाम नरकास्त्र गौरी चसक्च परिखी । तयोः प्रजः चित्रस्या कार्यम ध्योवते परम् ॥ १८॥ रत्नमतिन्दर्भेयति सः तमाद्वः न पद्मसि । ज्ञानच्ययेन fol. २-a. विकत्तः क्यं तं प्रावृत्ति च्यवातः । १८ । तस्रकाच चित्रस्यकः 'मेऽनुसकं क्रमः। यया प्रश्नस्तितं नायं चानचच्च स्तीन्द्रयः ॥ २०॥ बार्चनागार्जनानुचां प्राप्य सिद्धस्तदाभवत्। बोधिसत्त्वेन<sup>ः</sup> च ततो उनुसन्त्रीतो यथार्थतः॥ २१ ॥ सनोसक्तित्तवसामी चर्यास्त्रानं विवेत्तिम्।

इति बुद्धवोधिसन्वसिद्धानामास्रायः समाप्तः ।

व्याकृतिं ग्रावरस्थासौ दघविवस्ति सन सः ॥ २२ ॥

(III) इन्द्रभूतियाः ऋोड्रिनी<sup>8</sup>ः वश्वयोगिनीः तिलोषाः नारोषाः कदयवक्षमाः भ्रायोगाः सङापव्यक्तासोवस्रोः व्यवदा प्रवर्गाधः खदयत्रकाः तकापाति। पैगद्धपातिकः, पश्चित्तोऽभयाकस्युप्तः। प्रनर-ह्रयवश्चस्येति ।

<sup>&</sup>lt;sup>1</sup> In this socount Trisérana who is to become Săbare, and Săbaredvara—is saul to be a sou of a Naţo called Loka and his write Generi. But in the account of Sampa mid-in po CXXXI,—who equally makes him a checiple of Nigărjuna during the latter's residence in Bengal.—Loki and climi are saul to be his wives.

<sup>2</sup> नामार्जनम् marginal gloss.

<sup>ः</sup> मटपुषस्.

<sup>\*</sup> सम् is नानार्कनं according to the marginal gloss.

ь जाबाजीय marginal gloss.

<sup>6</sup> On these two mountains see p. 153. For this story ofr. also bKs.

hab bdun idan, p 23-24. The verse here also is defective. There ends the first familys. The guruporampers which follows must belong to it, if we are to judge from next Chapter's List. 8 Probably Laksmikara.

(III)

वः'कदशा जगायचन्नम् । जः श्रुन्धता । तयोरेकं रेयः ।

" वाश्चर्यातीतवाबारी राकाराकारवर्जितः"।

हेलसुपन्न विद्वानिकारी वाराष्ट्री वन्तपूर्विकेति प्रसाधैविसुद्धिः । कायवाक्तिकविश्वद्धा चिकीयम । हेत्यकयोरश्रेटलाजिकोयां त्रस्थता धर्मीदवेति । [२-२]

(IV)

### नसः ऋषिकायोजिनी ॥

प्रथमं वाच्चपत्रा सिन्दरेशाः व्यसमावे मन्त्रेशाः वाच्चदि सूर्यस्य-इंकाररक्तिभराक्तव्य प्रवेद्ध प्रव्यादिभिः संपृष्य तदनन्तरं जगण्यन्त्रीक्तवः। त्रान्यतानन्तरं षटिति । व्यात्मानं भगवती भाववेत, पर्वत विद्योगरि नानाप्रव्योपेताम । सर्वस्थाचंकाररिक्षां संस्कार्य श्वासवातो यथाऽदर्ध-वद्योगः (?) । व्यन्दतासादनं वश्रीकर्यो प्रवेशदिकं पारद सदश्चं भावयन वामनासाप्रदेग पिवेत । जिल्लाकं बिलभावना कर्तव्या । यथादिस्त्री बाजतबसादानपेक्तं व्यक्तिस्त्रीः प्रवेतसामास्ति, तथा अस्वतीप्रवेताकानां <sup>5</sup>भाववेत । बन्दतमाक्षादवेत । ग्रिकानुस्र जिल्लायां मन्त्रमाभितित्व, साम्रज्ञानादं प्रवेश्य सावेशायेतः।

(V)

वच्चयोजिनीग्रुद्वपरंपरा । प्रवस्नाच । साजस्दक्त । विजयघोव । व्यनकुवका विस्तो। पैस्ह्रपातिका पश्चितविनयग्राप्ताः वागीश्वरः व्यवधतसुधनश्रीः जीजावद्यः जीजतवद्यः कोविष्टार-प्रक्रियतमादाः ॥ नमः सर्वेच्यायः॥

Here the mystical meaning of the word Vejravšršhi is given; but the Smolya which follows is in fact connected with Vejravogini-meaning in Tantica Buddhian and it is based upon the theory of convenential in Tantica Buddhian and it is based upon the theory of convenential in fully developed by the Mahkyāna dogmatics and chiefly by the Buddhagotta-Schou. Memu: is=merudanda, afryo=pińgadš coma=ids; in this passage the centrariges, didysimnicapitā is described.

<sup>4</sup> ex. of. M88, पादर. It is necessary to understand : ātmānam or to correct : tim parvatābrāntām.

#### (**V**1)

नमः जोष्यवरेकराय। इष चलु मध्यरेषप्रश्च प्रवच्यम्भागगरसमीये आटकरवी नाम प्रविचार्यकः । तस्य स्वान्त निर्मृत्वः
नाम माझ्यो च वाविनी 'नाम प्रतिवयति स्व । तरा च कनामारेय
हामोदरो नाम' तपुणी पद्म । य चेकार्यप्रवचेरधीयः कुमारः नामायवेदको प्रषातिक्ष्मय मतनीयो नामेकराव्येष्ठस्य । ततः प्रवाद्योवेदको प्रषातिक्ष्मय मतनीयो नामेकराव्येष्ठस्य । ततः प्रवाद्योवेदको प्रषातिक्ष्मय मतनीयो नामेकराव्येष्ठस्य न तर्वश्यास्त्रमध्यम् ।
विद्यतिवयंष्यमं नारोयारसमीये प्रमात्माध्यमिकवारमितानयाविद्यास्त्र
स्वयंपर्यन्त । प्रवाद्यास्त्रम् । प्रमात्माध्यमिकवारमितानयाविद्यास्त्र
स्वयंपर्यन्त । प्रवाद्यास्त्रम् नामाविद्यास्त्रम् नामाविद्यास्त्रम् । प्रवाद्यास्त्रम् ।
विद्यतिवयंप्रम् । प्रमात्माध्यस्त्रम् नामाविद्यास्त्रम् । स्वयः नामाविद्यास्त्रम् । स्वयः नामाविद्यास्त्रम् । स्वयः नामाविद्यास्त्रम् । स्वयः नामाविद्यास्त्रम् ।
विद्यतिवयंप्रम् । स्वयः विद्यास्त्रम् ।
स्वयः स्वयः वयंप्रमुद्धः यावत्य्यक्षमः ।
कोटिनेकं चतुर्वनायंक्षित्रम महारक्षस्त्र ग्रादित्यः । "गञ्च त्रं स्वतः याविद्यास्य ।
विद्यत्यः चत्रस्य प्रवाद्यस्त्रस्य ग्राद्यव्यस्य व्यवस्य । स्वयः ।
विद्यत्यः चत्रस्य चत्रस्य प्रवाद्यक्षस्त्र ग्रादित्यः । "गञ्च त्रं स्वतः व्यवस्य ।
विद्यास्यः चत्रस्य प्रवादस्य ग्राद्यस्य ग्राद्यस्य । "व्यवस्य स्वत्यः । विद्यास्य ।
विद्यस्यः चत्रस्य प्रवाद्यस्य ग्राद्यस्य ग्राद्यस्य । "व्यवस्य स्वत्यः । व्यवस्य ।

<sup>&</sup>lt;sup>1</sup> But ofr belore, p 149 n 4. <sup>2</sup> Chr supra. 149.

So the MSS but the reading seems corrupt is it to read: Hkafi editarira, viz., the system of liketika, etc., considering liketika, as a corrupt for lagudida, lakulida nakulida? It can be also the name of his guru in this case we need. pārkea or such his form.

<sup>4</sup> for all these perticulars etr. the biographical account in bKa' bab bdun idan, p. 23 ff. There also it is stated that before he was a tribaka-pandita, (cfr. ekadunda 'bhiit of our text and preceding note) and mention of Rabaskarakanti, Nara etc. is made.

of Ratnäkarasanti, Naro, etc., is made.

6 This prakarana is perhaps that alluded to by Taranātira, Geschichte

p. 241. vi. the "Vajrayhakoidvayhoha". Connies, III, p. 82,

"A true the "Vajrayhakoidvayhoha". Connies, III, p. 82,

"A true the them to the the the them to the

<sup>7</sup> By the Siddha Nāgārjuna. it has been edited, as known, by L. Do La Vallée Poussin. Louvain. 1896.

<sup>8</sup> Khasarpana is the residence of Avalokidesvara, cfr. Taranatha. Geschichte, D 144.

It must be W .

प्रवर्षि सप्ते गरितं "मक लं क्रमप्रच दक्तिगापके मनीमक्तिकासी पर्वतौ । तत्र प्रवरेश्वरक्तिस्ताः स च तत्राव्याहको भविष्यतौति । तत्र च मार्गे वागरनाम्ना मिलियाविः। स च राठदेशवाविरात्रपुत्रकोगापि वार्षे ग्रह "। पश्चादते सति सागरेग मिलितः। उत्ररेग्रपर्यन्तेन मनी-भक्कचित्तवित्रामयोर्वात्तां न अतवान्। श्रीधान्यं ग्रत्वा वर्षमेकं स्थितः। पश्चात्व्याच्या उद्देशे साधिकानतारां साधिवतसारव्यवान । सासैनैकेन सप्तो अधूत् "ग्रष्ट न्वं कुलग्रुण वायकां दिश्चि पर्वतौ तिस्त्रन्तौः। पश्च-दग्रदिनेन प्राप्य[२-१]ते"। भट्टारिकाया 'वाक्येन वायव्या दिश्रं संघातैः साधं गच्छति प्राप्तिपर्यन्तं पुरुषेशैकेनोक्तमः "पर्ददनं निनभक्तिचन-विकामी प्रापवेते लग्नी। तत्र सखेन वास्तव्यम"। इति ऋला परिख्तपादी ऋकोऽभतः व्यपरदिनं प्राप्तमः। तच पर्वते दिने दिने दग्र दग्र सरङ्कानि इततान्। कन्दस्कवकाष्टारं इतवा दिनदग्रपर्यन्तं प्रिजातने प्रयोगमास्य एकाग्राचित्तेन उपवास कर्तमारुखः। सप्तमे दिवसे सप्तदर्भागं भवति । दश्मी दिवसी स्रोवां क्वेन्मारस्यः । तत्त्वाकातसाच्चा-हर्भागं भवति सेकं द°दाति। बाह्ययवचानोऽभृत्। पश्चकामे चतुर्मुदादि-व्याख्यानं क्ततं दादग्रदिनमर्थेन्तम् । प्रनर्ष्यपदेश्रेन पश्चदिनं यावत्, सर्व-धर्मदृष्टान्तेन वौद्यां वादयदि । तच्च पद्मावली । चानावली । ग्रावरेश्वरेक व्याचां दला "प्राक्षातिषातादिमायां दर्शय त्वम"। तदननारं सागरः कायखद्यं दर्भयति । प्रशिद्धतपादेनोक्तः । भगवन्तिमध्यद्यं काश्निश्यखद्यं

<sup>&</sup>lt;sup>1</sup> Manolshanga is referred to also in Tääkistärin. Jiesch. p. 148 tiin hökä bab bulm lään the rendience of Sishasa is saad have been Sriparvata. Anyhow all these places were near Niddhipuketade the goest importunes of which is attesied by interny documents (Youx and acheelogical and origiraphie documents (etc. Annual Report of South Index Egirgenshy 1984, 1983, 1927, Nationathe Dutr in 1140, v. p. 795). The dual which we find in our text may quite well refer to the two mountains (Türvadain and Annual Laprada).

<sup>&</sup>lt;sup>2</sup> MSS. चानि. Same story in bKa bab bdun ldan, p 24.

Sic. MSS. 4 Tara. 5 MSS. Paramadimamana.

<sup>&</sup>lt;sup>6</sup> On seka, see HARAPRASADA SASTRI, Advayavajrasangraha Introd.

<sup>7</sup> MSS, vareavate.

निर्मियतुमग्रमः। ग्रवरेषर चाष्टाः "विक्क्यसंप्रतमात्"। पश्चित चाष्टाः "तर्षि किं कर्तवं सम चापपन् पादाः"। <u>ग्रवरिपां</u> चाष्टाः "तरेष्ठ भन्नति सिद्धिनांकि देशप्रकाग्रसः कुद"। <u>चरवण्यः चाष्टाः</u> "चग्रकोर्ड सतदन्तर्ते क्रयं करिकाग्यदम्"। चाष्टाः "इर व<u>य-वोतिनि-</u>चपदेशात्वरिकति सम्। पत्नस्य पत्निक्यतीति"। इष्टोपदेश-सिक्का सङ्गरकपारीऽनार्थानी उस्त्।

> नेदं घतुर्भ च स्था। न वराच्यातः संपूर्वचन्नवदना च न सन्दरीयम् । निर्माणनिर्मिततयार्थिननस्य चेतोः सन्तिस्तते विदित्तवे <u>स्वराधि</u>राजः<sup>8</sup> ॥

यथाव्यवसमः समाप्तः॥

#### (VII)

समनिकारे। पूर्ववकारारिककं 'संपूज्य विश्वितमावतीयोगः 
प्रस्तवीवारामतवदनः सास्त्रपाटाह्रश्चितंत्रा कतपसम्बद्धको दणदिश्चकः 
प्रस्तरपीठारामतवदनः सास्त्रपाटाह्रश्चितंत्रा कतपसमस्त्रको दणदिश्चकः 
प्रस्तरपीठारामतवन उपायकां तिस्तिका ततः प्रवेद्य गौर्वाकितधिद'कः 
स्वि-्-शृष्टि कतं संस्तापं प्रकृष वक्तं दला तद्भिर भागस्त्रसापूर्य 
क्ष्मात्रकोष्ट्रपादसाम्तितं क्षाला "सुष्टे सुष्टं देह मेस ""। तत उपायप्रसामित स्वमनं विचन्त्र मन्तितपुष्पतादनं स्वमयं वयदां वा संवास्त्र 
वाटोपमन्तर्भुवारपन् सूर्यं रचात्। यदि तस्य प्रसम्पादिनिमणसुपस्वापते तदेव कपनीयमन्त्रपावेद। तद्य प्रसादुम्ब मन्तदानं सुवसरंप्रसाववयं कर्वश्चिति।

### सम्बदायविधिः ।

<sup>1</sup> MSS. अवराधिक.

<sup>2</sup> Metu: Vasantatilaka,

s Here we have the description of the diked. MSS. सन्त्राच्याच्याः 5 Makha Mak

<sup>. .</sup> 

<sup>&</sup>lt;sup>5</sup> Mukhe Mukham dehi, me . . .

(VIII)

एतदिनकवाय शुद्यपंत्रमामायक्ष्यरायेनमापटिनिति। रेतलका च स्वितवा आद्रोत्पादनायाँ। सिक्ष्यानामाविद्रानिदेशयोगते। इष्ट्र जन्मीन यदि न विश्वादि तदा मरावत्तमये पन्ने तम्मुवास्त्रसूखे प्रविक्ष स्वस्ता पर गोनन्। इति जुन्नेवादादेश<u>ासंवदा</u>येवतन्त्रमानेतृ<u>तोषु-वानं तकः है तम् योगिनीयां</u> दिनवतुष्टं यावत् क्षितो पौर्वे तमस्त्रमानेतं नवायः है वस्त्रस्तायं वस्त्रमानं वस्त्रम

(IX)

नमः स्थीतकवोजिनी ।

۷II

THE LAMARBAMA AND THE INFLUENCE OF TIBETAN-SPEAKING RACES ON THE TANTBAS

In many Tibetan translations of Buddhist Tantras one comes across the expression: thamoi rim pu.

In such cases, one feels attempted to translate expressions of this kind by: desironma. It is, in fact, known that hamo is equivalent to desi. But if we have recourse to the Sanskrit original of the tantric texts connected with the cult of the Dakints and Yogints we shall realize that such a re-translation of the Tibetan term would not be exact.

<sup>1</sup> corr. arthum ? 2 Subject ?

In the Dakarnavatantra there is mention of the lāmācakra1. In the Abhisamavamaniari by Santiraksita 2 we read mantras as the following; om dakiniye hum hum phat om lame hum phat lāmāvā.

Then, in a commentary upon the Laksabhidhanatantra, the colophon of which runs thus: Laksabhidhanad uddhrtalaahvabhidhane pindarthavivarananamaprathamatikapariccheda, when the various pithas, localised in the body, are described, we read (f 7, b); ātmapīthe vajradākini daksinadale kanthapadme paravithe lama pascimadale nabhipadme mantrapithe khandaroha.

The same name is to be found among the varieties of the sthalacaradākinis: svānī, lāmā, asvī, khandarohā, hastinī, rupinī, pracanda gauh, mesi, candaksi, etc., (all are manifestations of Valrayarahi) and in the section dedicated to the khecara parivartinyah; vajradākini, cātaki, lāmā, suki. khandarokā, sārikā, rūpini, kokilā, pracandā, lāvi, candāksi, pārāvati (8.8). Mention of this lama is made in very many other places, of the same commentary

In Cakrasamvarapañjika by Jayabhadra (p. 26. a) we kākāsyādyā lāmāntāiti (ntā doubtful), lāmājātīyāh

(1 e., yoginyah). So that there is no doubt as regards the original form: lama common to many Buddhist Tantras connected with the cult of the Dakints and Yogints. It is quite easy to trace out the origin of this word: it is nothing else than the Tibetan Lhamo, she-devil. The Tibetan mythology is full, as it is known, of these female goddesses haunting mountains, passes, rivers, etc., and to be always propitiated. They existed before Buddhism. and, then, were introduced into it.3 But the mention in these Tantras of the Lama worship deserves our special notice, because it shows another channel of influence of foreign culture upon that complex and manifold literature which is represented by the Tantras. The northern borderland with its Tibetan-speaking races has evidently exercised some influence upon the development of these currents of thought and mystical practices, which are chiefly of popular origin though elaborated later on by the pandits and teachers of the various sects and freely accepted by the Buddhist or Hindu society. This mention of the lamacara supports, therefore, the statements of the Buddhist as well as brahminical traditions, when

<sup>1</sup> HARAPRASADA SASTRI, Catal. of Sanskrit Manuscripts of Anatic Society of Bengal. I (Buddhist manuscripts) p. 94. 1. 20

<sup>\*\*</sup>Some few leaves only of this work are preserved in the collection of His Honour the General Kesar Sham Sher Jung Bahadur Rana The reference is very important because it gives a terminas a quo the existence of the Lamis worship was known in India \*\*I'mb elled in witches at also to be found all over the borderland of \*\*I'mb elled in witches at also to be found all over the borderland of

Tibet. For Dardistan ofr. LEITNER, Dardistan. London, 1893, p. 23.

they speak of Mahācina 1 as the country of origin of some tantric worships. It was there that the Siddha Nagarjuna went and was initiated into the cult of Ekalata.2 It was also there that Vasistha went in order to get siddhs from Tara. This statement finds full support in the Dakarnavatantra where in the fourth Patala dedicated to Lama we find the north designated as the place of the lamas: Lamottarakulotpattivogini väthanävikä. We cannot, however, better specify the character of these Lamas; besides being goddesses they must have been witches, like the dakinis and the worinis with whom they are connected. In fact, in the commentary upon the Laksabhidhanatantra, already referred to, they are included among the dakints who are always considered as flying goddesses and whose name is, in the Tantras, related to the root; dai to fly, just as very often their special abode is said to be Uddiyana, a name connected in the Tantras with the same root: dākinyas....: ākāšacarāķ; dai vaihāyasā gamanaiti dhatupathat 8 It it is not impossible, a priori, that flying witches were called after a root denoting their peculiar quality, it is also legitimate to suppose that we have. in this case one learned stymology of some foreign or at least vernacular aname. There can hardly be any doubt that these dakınıs, yoginis, lamas, etc., were originally nothing else than local female godlings or goblins such as almost each village or town possessed and who were, later on, considered as manifestations or particular aspects of the most prominent female deities of India, viz., Durga, Kali, etc.5 In the commentary upon the Laksabhidhanatantra (fol. 4, a) they are said to be : sarvasattväpakärinyo gramadaivatyah pithopapithäsritah. In fact, in the list of these dakints, as they are given in our texts, we recognize quite well, from their own names, the popular and primitive character of many of them. They are in the form of animals, birds, or monsters with the body of

on the Durgapüja.

<sup>&</sup>lt;sup>1</sup> The existence of such tradition as clearly indicated by some Tantras which in their title itself show a connection with the Mahācinacampradāya. I quote for instance the: Mahācinakrama.

un manadina cir. S. Lavi - Burno. 1905.

3 One Wöldmen edited by Dector Benoptosh Bhatisckrya and referred to in his learned introduction to the edition of Sadshanamika has the following colophon: § "genegägirungsdare biotereddyfigm Vol I, p. 267. For the legend connected with Vassitha ci. Rwdrog@molio\_149.

<sup>&</sup>lt;sup>3</sup> Lukehhiddhänatintratitä fol IV, 1 cfr. also Cakrasamera fol 2, bedäkinga äkäkagaminyab. Vaihäyasyäm gatau dipanta ityarita. The Tibetans follow the etymology in so far as, hesido the form Dakini. Däkima, they use for this term the translation ink a sgr om, äkäka gamin. i

4 But cfr. Bengali däkä, to call. In Bengal, the Däkims are still

<sup>\*</sup>But cfr. Bengali: dākā, to call. In Bengal, the Dākinis are still surviving in popular beliefs.
5 This has been shown in detail by me in my forthcoming volume

women and the head of some animal, and in general, their terrific aspect is predominant; they are, as we saw, sarvasattvapakarinyah. They can stay on earth, in the sky, in water. But at the same time their acceptance into the Tantras sheds a lot of light upon the various elements of which these texts were the outcome and their interpretation also by the Tantric teachers becomes extremely interesting, when we want to establish how these popular and somewhat primitive and crude beliefs were modified in a literature which represents the most powerful attempt at synchretism that we know. Taken from the low classes or from the borderland of India, from the villages and the persants, and perhaps, from settlements of foreigners, they were adapted with their original names to the ritualism and to the mysticism even of the new schools. So the Tantras could claim to be strictly connected with popular behefs and at the same time rise to a higher and more spiritual refinement. In the lower strata, these dakinis, lamas, yoginis continued to receive their worship; in the debased Tantras concerned chiefly with the 6 karmas, meant to bestow worldly profit upon the sadhaka, these remained with their name, but designated the letters of the alphabet, bija, in the design of magic circle, mandala or cakra; in a higher plane, that is in the adhyātmapūrā, they correspond to the arteries and veins, nadi, circulating in the body and the control of which is necessary during the pranayama according to the Hathayoga system considered as a most important element during the process of meditation.

At an even higher stage of symbolism, they represent, in the essoteric language of the yoyn, the constituents of illumination, bodhipaksas. In order to combine these contradictory elements the Buddhist tautric teachers were obliged to have recourse once more to the theory of the double truth, the relative and the absolute, negiraha and näffirha which plays such a great part in Mahayána: loksamertyű dákinicakrasamvaro laukkaszidhándanya iti. Nifürthena dákinisamvarot laukkaszidhándanya iti. Nifürthena dákinisamvarot admindo dharmakáyalakaman ármyalás. Laspa ezehhövi-kakáyena mirilambakarusvátmakena adna samavaram ekutoma arar oz kruma čandro bödhictlam pañavámástássásápadalaksanum maházukkam nirávarunam; sérzo deödessásányatámaka att.

#### APPENDIX

### LIST OF THE DÄKINIS ACCORDING TO THE LAKSÄBHIDHÄNATANTRATIKÄD

### sthalacırajalacaravanacararüpapurıvartınyah dükınyah

damstri

ÁVÁDÍ lunkedvari lāmā azanvaávání ásví drumachaya khundarohā aranyasımlıni hastmi airavatī រជីទ្រធ្វើ gandî bharavî gen vyághri pracamila inesi vayuvega rksi canduksi ile surábha/csi problevsti nakuli syama devi barmi mahanasıı comeri khari nubhadra viramuti nambuki sükari hayakarna kharvari khagananā vidali kiirmi «aktavega muhavirya kumbhini éankhint khandarohä kakasya ulüksəya kupardikā godhi Acundini karkatā műsaki cakravarmini ávanasya 4 Alijataki mutai suvirā sükaräsyá makari vanari yamadadi mahābala darduri gavali cakravartmi yamadüti yamamathın: sallaki krtalasi

cakındākınī

#### khecara rüpaparivartinyah [dākinyah]

vamadametrini

lama păravati śuki prabhavati baki khandarohä sarikā mahanāsā rtīpinī kokilē cataki viremetî pracanda cakravākī kharvari candāksī hems

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lankeévari yanei drumscoháya yrksanni kokilaksi saundini rajaki oakravarnini

bhagavatī suvirā tittīrī mahābulā sarasī cakravartinī

jalaküki mahäviryä baläkä käkäsyä niläksi airavati

kāki bhatravi grdhri vāyuvegā ghuki surābhaksi mrgārmī syamā devī sikhmī subhadrā kukkutī

hayakarna bhedini khaganana caktavega kruñoi khandaroha

ulükasya cakori svanasya anila sükarasya vagdhulika yamadādi bukki

yamadütî tittibbî yamadamstriņī bhorundi

yamamathanī ambaraki

# Development of the Rtusamhära Theme in the Rämävana.

By C. W. GURNER.

It is the object of the following notes to call attention to two passages in the Kıskindhakanda of the Ramayana which are of importance both as early examples of Kayva writing. and in their bearing on the conventional literature of the Seasons in Sanskrit These are the set pieces on "The Rains" in the twenty-eighth Sarga and on " Autumn" in the thirtieth Sarga. There is nothing else quite like them, as a sustained piece of Kavya writing, in the Ramayana; and I will lay down three postulates about them, the last of which alone seems open to any kind of question. These passages are an insertion representing a later stratum of literature than the original epic, they are the work of the same hand, or at least of the same school, and finally they have their place in the development of Kavva between the Ramavana as an Adıkavva and the classical Sanskrit period of Kalıdasa.

Without attempting the rather sterile task of picking out the exact junctures of supposed insertions in the Rämzigne let me resume briefly the context in which these to a Ritavarnansa are found. The twenty-sixth Sarga describes coronation of Sugriva after the defeat of Balt. In the twenty-seventh Rüms retires to M. Prasravana, and the opportunity is taken for a descriptive passage on mountain scenery ending with the despair of Rüms and his evoluteagement by Lakemans. The Sarga ends with a few lines by Rams, of importunes for our purposes, beginning.

ग्ररत्वालं प्रतीक्तिको स्थितोऽस्मि वचने तव । स्राधीवस्य मदीनांच प्रसादमनुपालयन्॥

R. IV. XXVII. 44

Sarga twenty-eight then eads loff with the line.

स तदा वासिनं चला सुग्रीवमभिष्य च। वसन्मान्स्यवतः एके रामी सम्मानमङ्गीत्॥

R, IV, XXVIII, I

Perhaps most readers will feel something a little unexpected about it, a certain insouciance as to the scene immedistably preceding. This is followed immediately by the description in Rama's mouth of the Rains, the first of my two so pieces Lunce 2 to 14 are in Sloka. Then comes a long momentum passage in Upgati meter (d. 15 to 50). There follow three more descriptive lines in Sloka, and with the matest possible transition we are back to Rama's despite in waiting. And not only are we back to the same theme, but in the same words.

# तस्मात्कालप्रतीचोऽष्टं स्थितोऽस्मि मुभलच्चयः । स्योवस्य नदौनां च प्रसादमभिकाङ्गयन् ॥

R, IV, XXVIII, 63,

the three concluding lines of the Sarga being a word for word repetition of the three lines following the same phrase in Sarga twenty-sayan.

At the oponing of Sarga twenty-nine the some is shifted to Kiskindha, where we see Signtva as the picture of a discinct monator; on whom Hanuman urges round advice about duties to a superior ally with pre-assing obligations. In matter and language the whole passage is thoroughly characteristic of the genuine Ramshyana epic

In the thirtieth Sarga we return again to Rāma; and its opening describes in the simplest language his distress at the sight of autumn in the absence of Sitā, while Sugriva delays

कामरुत्तं च सुरीवं नद्यां च जनकाताजाम् । वृष्टा कालमतीतं च सुमोद्य वस्मातुरः॥

R, IV, XXX, 3.

His thoughts shift to the distress which autumn will provoke in Sitū in her hour of separation.

R. IV XXX, 8.

पुष्पितांचासनान् दृष्ट्यः काच्यनानिव निर्मेकान् । कथं स रमते वाला प्रश्नन्ती सामप्रश्नती ॥

R, IV, XXX, 8.

This phase ends in line 12, immediately after which Laksmans, meeting Rama, offers further encouragement, this time in Upajati metre On this follows in Rama's mouth the second set-piece, that on Autumn, still taking off from thoughts of Stat.

षय पद्मपनाष्ट्राच्यों भैयिनोसनुचिन्तयन्। उदाच नवार्याः समो ।

R. IV. XXX. 21.

Up to line 27 this Rituvaranan proceeds in Sloka, describing in fact not the new eason but the cessation of the rain, with the following line there begins a long passage in Upajits metre on antumn (IL 23-37), which is in every way parallel that on the rains except for the insertion of one remarkable that on the rains except for the insertion of one remarkable. Sloka After this passage there follow six slokas, attil describing the ording the character, then a couple of lines recalling the motif of separation from Sitä, and with the same facility of transition we are back to a characteristic epic strain on the ingratitude of Sugtra followed by therein the present of the service of the strain of this reservice on the interest of these tax Rituraranas services on bind of the existence of these tax Rituraranas services on bind of the existence of these tax Rituraranas services on bind of the existence of these tax Rituraranas services on bind of the existence of these tax Rituraranas services on bind of the existence of these tax Rituraranas services and the services on bind of the existence of these tax Rituraranas services are the services and the services of these tax Rituraranas services are the services are the services and the services of the services are t

ताराविचापंसमयं वर्षशक्तिनिवासनम्। कोपंगावतिमङ्गस्य वजानामणमंग्रङ्गः॥

R. I. 111, 24

Quite apart from style and diction the posuliar tangle of notifis in the passage summarised inductives a later insertion. Primit facis. one would be disposed to regard the inserted Situvariana as coinciding with the two passages in Upajáti metro. Notice particularly how the six slokas following the Upajáti passage in the thritach Sarga are of a conder and simple style than those proceding them. Such a line as

खनगः सप्तपर्णाख कोविदागसः प्रव्याताः। दृश्यन्ते बन्धजीवासः ग्रामासः ग्रिम्सिनुष्

R IV, XXX 62.

abandous all the beauty of the long descriptive passage for what may be called the "catalogue method" of nature painting, the enumeration of bare last of trees or flowers, which is so characteristic of the archaic epic and appears for instance in the description of Mr Prasrawana (e.g. XXVII, 17) But I do not feel sure that the whole of the Sloka passages in the wenty-eighth and thirtieth Sargas lie custade the later material. I shall probably carry most readers with me if I maintain that Sarga 28 as a whole between the lines repeated verbulim, and Sarga 30 as a whole between the lines the state of the later Kávya element. That this later Kavya element does exist in these two Rivuyaranass I must now establish.

Let us turn at this point to an earlier Rituvarnana in the Ramayana, which, if any such passages do, must belong to the original epic stratum. This is the description of the Hemanta season in the sixteenth Sarga of the Aranyakanda.

R. III. XVI. 1-26.

### बारद्वापाचे हेमन्तऋतत्त्विद्यः प्रवर्तत

And in passing one may note the implications of the bare half line. A writer archaic enough to drop the sugment is already timking of the aix seasons in their conventional ordered succession; for twe not the word he would have used of the cold weather were thore not triver; to follow. And how does not reast the description. In the second of the word has been treat the description. In the second of the second particle was the price of the second o

### दिवनाः सुभगादिखाञ्हायामलिलदुर्भगाः

Ibid . 10.

The rhythm is that of polished sloka verse, but in rather an elementary stage.

If one reads the two later Rituramnans in comparison with this passage one is conscious at one of being in a different world of poetry, albeit evolved from the same elements. The steady run of short simple sentences has disappeared. Here is a writer who rounds off each natural feature in an elaboratedy constructed couplet, and heightens the effect by interspeng among these couplets a series of staccato clauses or piled up verbs and nouns

### विचर्तन सङ्घीपाला बालार्थ विजितीयवः

Ibid., 7.

writes the earlier hand.

रजः प्रधान्तं सिश्वमोऽदा वायुर्विदावदोवप्रसराः प्रधान्ताः

स्थिता चित्र याचा वसुघाधियानाम्

writes the latter, or

सूर्यातपन्नामखनचपञ्चा भूमिखरोहाटिसान्द्रदेखः ।

व्यन्त्रोन्द्रवैरेण समायुतानासुद्योगकानोऽद्यनराधिपानाम् ॥

Ibid., XXX, 37,

The verse is compactly built up in one grammatical and harmonious unit, in a manner unknown to the earlier passage.

But what characterises these two later Riturarnanas above all is a new power of constructive imagination in the poet. One hesitates to apply the conventional terms Alankara, the meaning of which varies so much in different authorities as to continue rather than to assist. But, if we take the essence of Dandin's Utpreksa to be in the novelty of interpretation of an observed object through the imaginative faculty

बन्धवेत स्थिता दक्तिकेतनस्थेतरस्य च । बन्धवेतेकाते यत्र

Kavyad. II, 221,

this figure dominates the two Sargas in the Kiskindhakanda. The conception of nature's concert (R, IV, XXVIII, 38) of the peacocks as denning girls (Ib, 37) of the sky roaring in pain (Ib, 11) of autumn imparting her glory to trees and flowers (XXX, 28) of the cranes as a wreath in the sky, such may be singled out as instances of the powerful imaginative faculty which distinction of the control of the contro

The boundary line between Utpreksa and Upamā is often almost imperceptible to the Western critic, and the same maginative faculty underlies the comparison of the clouds to war elephants (XXVIII. 20 and 31) and of the lake at night to the nicht sky

सुप्तेकष्टमं कुर्सुदेवपेतं सष्टाश्रदस्यं सक्षिणं विभाति । पनैर्विसक्तं निश्चि पर्याचन्द्रं तारागवाकीर्यासवान्तरिकां ॥

Ibid., XXX. 48.

Along with this imaginative element goes an intensity of descriptive power, which, if not in the same degree a new factor in poetry, does distinguish the new writer from the old. It runs alike through the similes and through passages of nature-painting to be classed, probably, as Svabhabokti, such as the description of the snake.

चनेक्षत्रर्थाः सुर्वनस्काया नवीदितेस्यनुष्ठरेषु नद्धाः । चुधार्दिता चोरवियानिकेश्वरियानिका विप्रवर्गना चर्णाः । Ibid., 44.

On the other hand this writer, who is obviously a great creative poet, and who, if my analysis is accepted at all, is taking the art of Kavya-writing a stage beyond the Adikāvya of the original epic, makes very little use of what subsequently became its most distinctive feature, sleshs or double-meaning. It occurs in a very simple form in one or two similes. eq, the

# तिहत्यताकाभिरत्रकृतानाम्

Ibid , XXVIII, 31,

of the clouds and war elephants, and the कशाङ्गोद्तमभौम्यवस्ता of the lady night (XXX, 46). But generally speaking one may say that there is no striving after double-meanings in passages in which it would be regarded as a sine qua non by the later Kayva writers. Even when the conventional Kama appears on the scene, it is by no means easy to make the familiar aranga bear the meaning of a bow as well as the two flowers

### प्रमुख्यवानासन चिचितेष वनेष

Ibid . XXX, 56.

and it seems just possible that the poet was thinking only of the flowers.

Similarly there is not a great deal of the conventional Sabdalankaras in these two Saigas, though percentibly more than in the standard epic style. But all the while the writer is experimenting with words, trying new effects. The Yamaka of course is among them. He amuses himself with the manipulation of T in two lines in Sarga 28 for which simpler parallels might be found in the oldest stratum, but probably nothing of the same complexity

मत्ता गनेन्द्रा मुदिता गवेन्द्रा वनेष विकानतमा स्टर्गेन्द्राः । रस्या नगेन्द्रा निस्टना नरेन्द्रा प्रक्रीडितो वाश्यिकैः सुरेन्द्रः ।

Ibid . XXVIII. 43, cp. 46

There is an elementary yamaka in

म्होत चापोद्यसदग्रहचग्रहः प्रचग्रहचग्रहोद्य वनेव कामः

Ibid , XXX 56.

Or again he plays off adjective and noun.

नीलेष् नौलानववारिएर्गनेचेष् सेचा

Ibid , XXVIII 40.

or piles up verb and noun with distributive dependence

व इन्ति वर्षेन्ति ..... नद्यो घना etc

16id. 27

or repeats the same verb, in the figure of verbal Avritti,

# निदा शनेकेश्वतमन्त्रुपैति दुतं नदीसागरमन्त्रुपैति etc

Ibid., 25,

or slips in the repeated gerund in both Sargas, as a small indication of identity of authorship.

### विश्रम्य विश्रम्य lbs. 22 विक्योभ्य विक्योभ्य

XXX, 41.

All these verhal ornaments, it may be noticed, are reproduced in the Sanskrit writings of Asvaghosa, the only professed Kāvya writing we know of between the Rāmāyaṇa and Kāhidāsa; and it is significant that there should be so much resemblance between that writer and the poet of these two Sargas. Whother or not they must have been known to Asvaghosa be a mesclin to be avoided in this article

One theme of particular interest in these descriptions of Autumn and the Rams is the interpretation of Nature in the terms of passion, the influsion of Sringāra Rasa. In fully developed Kāvya this is the dominating feature in all descriptions of nature and of the seasons. It is expressed throughout in the Ritussinhidra of Kālidāsa, in which the seasons tail off one by one into purely erotic writing. In this carlier stand of Kāvva in the Ramāyana one can trace the obsession at an earlier stane.

If we return for a noment to the Hemanta of the Aranyakanda Sarga 16, we find ourselves back beyond this phase of thought altogether. The writer of that passage is interested in Nature for its own sake, without its erotic implications. To be sure, even this early puet does not contemplate Nature without some shade of femnine association in hs mind

#### out some shade of feminine association in his mu विद्योगतिसकोव स्त्री गोत्तगादिकप्रकाशति

R. III. XVI, 8.

But this chaste and straightforward simile represents the limit of his interest in the theme. Notice how much he misses that later Kävya would have leapt at. He touches on the activities of the three castes wastes wavet etc. III, XVI. 6 but not what the women do. Contrast the Hemanta of Kälidsa, He thunks of the long cold nights with streamtical feature.

Ibid., 12.

but not of company or absence which makes them shorter or longer. Contrast Bhartrihari's imitation तेव्यायायामा etc.

Bhart. Sringaras, II, 98.

If, as I am notined to believe, the concluding slokes of the Autamn in the Kikidindhakanda (XXX, 28-30) survive from the sarlier hand, the contrast would need qualification. But taking the Hennanta as it stands one find a in it the nature power of a mentality untouched by the Sringára Rasa, devoid of erotic obsession.

In the two Sargas of the Ksikindhakanda one is conscious at once of a change of mentality. Sringara Rasa, the crotic tone, is making itself felt. Not. to be sure, in the same degree as in the later Kavya t is far from being the writer's sole or dominant interest in the description of nature. But the

thought runs at the back of his mind

This Śrngāra Rass, in the conventional nature painting of Kāva, postry finds expression in four aspects, namely in allusion to the passions of the animal world, in the personification of nature in terms of femininity, in the thought of loves purposes served by the seasons, and in the crotic associations; such as the thought of meeting or of the loved one's continnance, which natural objects excite. All are to be found, in a comparatively unobtrusive form, and still as a matter of besidiary rather than of primary interest in "The Rains" and "The Auturn" of the Rainsyans

Why, for instance, should almost every mention of the birds of the air and the beasts of the field have some shade of crotice colouring? The writer can hardly think of cattle, elephants, bees, and above all peacocks without slipping in just the one word which defines the thought While occasionally it breaks out from its subsidiary position and becomes the primary interest in the animal world

# स सन्धवा तौवतरानुरागा कुलान्विता सन्दर्गतः ऋरेगः

R, XXX, 39.

The personification of nature in terms of womanhood is a large subject, to which I alluded when mentioning the imaginative power of this writer. A simple instance is the personification of rivers, not exactly as nymphs, but as women in love; and it was quite probably a stock these even before this writer worked it up.

# मौनोपसंदर्शितमेखनानां नदीवधनाम्

Ibid., 54.

There is far greater individuality and imaginative power in the bold Uprekes pictures of the intoxicated woods, and of the peacocks as dancing girls (16td., xxviii and xxviii, 37). Or again this personification covers a still wider field in the womanhood of Evening and Night portayed in two conse-

outive lines (xxx. 44, 45). The former of these is the stray Sloka embedded in the Ups/tti context; and the remarkable beauty and finish of its expression, no less than the metrical anomaly, make inevitable the query whether it is not the insertion of a still later Kavva poet.

### चयचन्त्रकरसार्थं चर्वीको विततारकाः।

### अको राजवती संध्या अकातु सायमन्दरम् ।

lbid., 45.

The utility of the Seasons for lovers' purposes leads away from the primary laterest in nature itself, which still marks this early Rituvarnana, and the thought occurs only in an elementary stage.

#### इसास्ता सकायवतां किताः प्रतिकता दिश्रः

R. XXVIII. 13.

Particularly instructive is the contrast between this rather vague idea and the clearly-cut convention of the Abhisarika amid lightning and clouds, which had presumably not taken hape at the time of this early writer. Similarly under the head of crotic associations one may instance the line on Meetings (so reminiscent of a poem of Shelley's),

# निहा धनैः केधवसभ्युपेति हुतं नदौत्तागरसभ्युपेति । इन्द्रा वजाका चनसभ्युपेति कान्ता तकामा प्रियसभ्युपेति ॥

R, XXX, 25,

" and the rivers kiss the sea."

Before leaving the element of Sringāra Rasa one may mention too the introduction of the personified Kama with his bow. It is noticeable as an early instance of the specific convention wave wave around the elementated in Rajasekhara's Kāvyamtmanssi 187 and suggests many questions about the date and genesis of this figure.

It is impossible to dwell longer in this context on the very wide subject of Śringāras Raas in nature painting; but it is clear that in the poetic mentality of this writer in the Rāmāyana are to be found all the elements of the later developments of the literature of the season.

It is hardly necessary to argue at length that the two passages on "Autumn" and "The Rains" are the work of the same hand, or at least of the same school. Instances have been taken indifferently from both, and close perusal of the two Sargas will leave most readers with a clear impression of their common authorship. Apart from the general uniformity of

style there are close psrullels, almost cross references between one Sarga and the other (e.g., xxx, 43 and xxviii, 36, xxx, 47 and xxviii, 33). The use of the word weatfer (xxx, 38 and xxviii, 21) is a petry point of identity

Now the intensive study of two isolated Kūvya episodes in the Ramayana derives interest only from their hearing on the history of Kavya poetry. And in so specialised a subject as the Seasons the enquiry turns naturally on comparison with the Ritusamhara of Kalidasa, that poem being the earliest classical Kavya extant The resemblances are so marked that only one of two conclusions is possible, either that "The Rains" and "The Autumn" of the Ramavana were known to and unitated by the young Kahdasa (or whoever the author of the Ritusanhara may have been), or that they were themselves the interpolation of a writer acquainted with that poem. I merely state this latter alternative to anticipate the objection to my postulate that the passages in the epic date between the original epic stratum and Kalidasa. Another reader, who agrees that they are not the work of the original cone writer might consider them a comparatively insepid interpolation in the days of the later Kayva. To my mind, the whole course of literary development in Sanskrit seems to necessitate regarding the Kayva passages analysed above as earlier than the Ribusamhara. At the same time the resemblances with Kalidasa do not of course exclude the possibility of intermediate Kavya writers between the two pieces of literature. The author of the Ritusanihara may have been carrying on the tradition of intermediate works which have disappeared, and not be unitating direct the Seasons in the Kiskindhakanda. However. that may be, it is surprising to find how close the resemblances are; and they immediately bring these two passages in the Ramayana into relief as a definite step in the evolution of this poetry of the conventionalised seasons

Of the general personification of Nature in the Ritusamhāra nothing need be said. But take so precise a detail as the red insects on the grass, which suggests to the earlier writer a woman wrapped in green cloth with red spots.

बाकेन्द्रगोपान्तरिचित्रतेव विभाति भृतिर्गवद्माद्दलेव । गाजानुष्टलेव सुक्रप्रभेग नागैव काच्लोच्चितकम्बलेव ॥

R. IV, XXVIII, 24

Kälidása substatutes for this rather crude, if vivid simile, the more conventional jewellery, and may be thinking of fireflies rather than of red insects but in words, cadence, and idea the influence of the one passage on the other is unmistakeable. विभाति मुक्केतररक्रभृषिता। वराक्तेव क्रितिविक्यगोपकैः

Ritus, II, 5.

If the writer in the Kiskindhakanda dwells twice on the idea of the dancing peacocks কৰিন্দ্ৰণা হৰ নীগৰকী: ৷

XXVIII, 33,

and कषिणुष्यमे कषिद्वदिहः (Ibid., 37) Kālidāsa must do the same प्रस्तान्त्रसं कुलमदाविकाम् and प्रस्तान्त्रसे प्रिखिभः समाकुतस्।

Ritus; II, 6, and 16.

The intoxication of the woods in line 33 quoted above is realled, with variation of features in Rius: 11, 23. The stock theme of the rivers in their course to the sea is repeated by Kālidāss with such close verbal resemblance as to make irresistable a correction of the Rombay text of the Rāmāyana notwithstanding the commentator

तटानि भ्रोर्गान्यपनाश्चित्वा... दतंस्रभतौग्मपोपयान्ति।

R, IV, XXVIII. 39

But read za for za and compare.

निपातयन्त्यः परितक्तटहुमान् प्रयान्ति नद्यः त्वरितं पयोजिधिम् ।

Ritus, II, 7.

The personification of the rivers appears again in a still more characteristic form in the Autumn both of the epic and of . Kälidäsa, though in this case the epic passage quoted may possibly be a survival from the earlier epic hand.

दर्भयन्त भरत्यः पुत्तिनाति भन्नैः भन्नैः । नवसंग्रमसत्रीदाजधनानीव योजितः ॥ B. XXX, 58.

नद्यो विभाजप्रजिनान्तनिकम्बन्दिन्।। Ritus, III. 3.

The personification of Night in the terms of womanhood, which is the very soul of the later Kāvya, is followed, feature by feature, in the Rithesamhärs, with a master touch of differentiation at the close. As this is the last of my quotations, and of particular importance for the purpose I would reproduce it in ful.

राजिः प्राप्ताक्षोदितसीम्बदक्का तारामकोन्द्रोतितत्त्वादनेजा। व्योकांत्रकपावस्का विभाति नारोव सक्कांत्रकसंस्ताद्रो॥

R. XXX. 58

तारामधापवरभूवसमुद्रहरूती मेचावरोधपरिसुक्तसार्थाः इतकाः। क्योत्काटुक्तकममलं रजनी टघाना कृति प्रमातनित्नं सुमदेव बाला।।

Ritos III 7

The closeness of resemblance in descriptive detail coupled with the step forward in poetry which winds up the stanza of Kalidasa, makes this an admirable instance to establish both that the one poet knew the other and that Kalidasa was the later of the two.

The disconfiture of the peacecks by the grees R. IV. X.X.A. do and the association of the Sarnas with the rice-fields At I., the point of ripeness (Ibid., 47) are features of autumn reproduced by Kaildakas, the former in Ritus, 11, 13 and the latter Ibid., 16 on the other hand one medient of the seasons on which the epic writer, or rather the writers in both stata of the epic, are instant, has little interest for Khidakas in the Ithusanihira. This is their effect on roads and campaiging R. III. XII, 7; R, IV. XXVI. 15; Ibid., XXVIII, 53; Ibid. XXXI, XX, 7 and 60) an aspect of autumn with wholk Kalidaka is of course more concerned in his Raghuvanusa (Ragh. IV. 24)

The above are a series of parallels all of which would fall within the scope of miniation in language or ulon. Subdarthahrana, as defined by Rājaiekhara. It is perinape worth while noting a few of the subconscious reminiscences or ecloses, in the use of the same word in the same position. e.g., with R. IV. XXX, 34 and Ritus: 111, 13, fewure firm in R, IV. XXX, 47 and Ritus: 111, 13, fewure Ritus: 111, 13, fewure Ritus: 111, 13, to see the subdard of the same word in the same position and R. IV. XXVII. 13 and 14 probably of the earliest stratum কংশকুৱাৰ্থকখন্য in Ritus: 111, 13, to be compared with the component elements garden, accessing, a

R. IV, XXVIII. 4, 34, 41.

Such details are not of much importance in themselves, but enhance the effect of the more obvious unitations. It is hardly necessary to enumerate trees, flowers and fauna mentioned by the two poets. Kälidéas reproduces the conventional list for the two cassons already suppearing in the spic. Among the petty worbal indications of an early date for the two passages in the Kişkindhakanda may be mentioned the absence of the extremely artificial word বিশ্ব for bee, common in Kalidāsa.

To sum up I would suggest that it has been possible to isolate in Sargas 28 and 30 of the Kişkindlakanda two passages Rituvarnana by an early Kāvya writer who represents a stage of literature perceptibly later than that of the original epic; and that these passages were already in the Ratmayana as known to the young Kalidāsa (or other author of the Ritusamhara) and had an immense influence on him and through him on the poetry of the Seasons in classical Sanskrit

#### The Psychological Simile in Asyachosa

By C. W. GURNER

The psychological interest is one of the outstanding characteristics of the Sanskrit poetry of Asvaghosa.1 This indeed is only natural to a writer who was a teacher and philosopher before he was a poet, and whose Kavva writing is professedly intended as "a medicine for a mind diseased" or in his own words as a bitter drug sweetened with honey (S. XVIII, 63). In illustration of this attitude one might dwell at some length on his development of psychological detail. The picture of indecision in departure (S. IV. 42 and B. IX. 71) of the body that goes while the mind remains (B. VI. 67) are instances which were imitated by later writers. The analysis of mental trouble (S. VIII, 5 ff) and the process of education and conversion (S. X. 42; S. XII, 1 ff; S. XVI, 52-67) have for Asvaghosa a profound technical interest of their own. He brings to bear on these themes whole batteries of similes in his effort to derive from Kavva writing the maximum of didactic power. such for instance as the series illustrating concentrated effort on self-improvement by digging for water, fire sticks, river erosion, cultivation, pearl fishing, conquest, etc. (S. XVI, 97-98). The later Sargas of Saundarananda are dotted throughout with these similes for mental states, e.g., for the impulse to dharma through faith from the faith that promotes digging for water and cultivation of the fields (S. XII, 33), for the unworldliness of the saint from the detachment of the gold from dust and of the lotus from water (S. XIII, 5, 6), and for the stages of enlightenment from the processes of working gold (S. XV. 66-67 ff). In particular, whether from some special acquaintance with medical science, or from the obvious aptness of the comparison, Aśvaghosa applies, with remarkable frequency, by simile and otherwise, the terms of sickness and medicine to mental states. Especially significant is a long technical passage about the treatment of Kapha, Pitta, and Vayu (S. XVI, 59-69), and commonplaces of simile such as the unpleasant dose (S. V. 48), unsuitable food (B. IX. 39), the antidote to poison (S. XII, 25; S. XVIII, 9), "complications" (S. XVII, 9), the world as a sick man (B. XIII, 61), and the analogy of illness to sorrow (B. VIII, 76) are scattered through the two poems.

N.B.—Editions referred to are:— Buddhacharite—B B. Cowell, Oxford, 1893. Saundsrananda—E. H. Johnston, Oxford, 1928.

It is not my object in the present note, however, to study the psychologies in terests of Avraghous as a whole, but to draw attention to a localized feature in his poetry which is derived from these interests. This at the use of what may be called the introspective or psychological simile, the simile from consciousness and conduct, used either to illustrate a pure external object described or, more frequently, to illustrate one process of consciousness or conduct from another.

process of consciouses or connected run anyoner.

Now this is something distinctive in literature. It is not uncommon for a poet to draw a simile from natural objects for mental experience, from moving water to indecision for instance. And the reverse process of using the mental experience as the source of the simile is not unknown even to the Sanakrit epic. The frequency, however, with which it occurs in Asvaghous gives quite a special note to his Kávya, and one may fairly suggest that it is largely through Asvaghous's influence that this type of smule does find an established, though by no means so promnent a place, in later Kávya, including, of course, that of Kalidass.

Let us take, to begin with this type of simile in Asvagho-a in simpless form, a mere commonplace illustrating a scene.

The simpless form, a mere commonplace illustrating a scene.

The same at the opening of the Saundrananda with its sandy screening as a state of the same and the same and the same as the

Except by way of introduction, these three verses do not attract much attention. Turn now to a fully developed passage in the use of the psychological simile to describe external action, the attack on the Buddha of the hosts of Mara (B. XIII, 46-51). "The arrow which another placed on his bow burst there into flames and leapt not forth, as the wrath of an impatient man devoid of self-control is rendered futile. The five arrows discharged by another remained stationary in the air, nor fell on the saint, like the five senses of a philosopher fearful of the world at the approach to the sensual field. And he who with murderous intent sezzed and anned a club in anger against the saint fell helpless from mopportune effort as the world falls into vices to its own undoing A cloud-black woman skull in hand with intent to charm the seer's mind moved unsteadily to and fro, nor stood fast, like the understanding of the fickle-minded man in study. One directing his flaming

eye to burn up the saint with the fire of his eyes, like a poisonnake, saw him not sitting there, as a man given to sensual passion sees not the good in which he is instructed. Another liting a heavy rook struggled in vain, with his effort thwarted like one desirous by fatigue of the body to attain the highest dharma appreachable only through knowledge and contemplation." It will be obvious, as this long introspective passage goes on, how Asvaghoss has sacrificed his descriptive power to his psychological and didactic interest. The simile from impotent passion does throw a touch of vividences on the arrow ablaze on the how string. But by the end of it the laboured simile the rock serves no genuice purpose of a simile, but is introduced primarily for its didactic value on a favourite Buddhist thense

This is quite the most striking and sustaned passage in illustration of the external from consciousness and conduct, implying, as it does, the psychology of intellectual application and of sense control as well as a whole background of moral principles. More vaguely imaginative is the quasi-personification of the fisaram with its sacrificial fires, groups of rishis, and the nummer of devotions in its shrine as the fulfillment of dlustram (B. VII, 33) Just as in a more commonplace passage Buddha humself is the image of Dharma (B. X. 19). (Certain other elaborate allegorical presonification of Dharma lie outside my present accope.

On the other hand, a purely descriptive passage in the Saundarananda of animal life in the thickets of the Mountainside has unexpectedly, if not indeed inappropriately, two illustrations of a more subtle and less didactic psychological significance. "The Chamar was caught in the hanging branches amid the waving Kadamba flower on the mountainside and could tear away the tail adhering no more than a man of noble conduct can tear away affection bred in the family" (S. X. 11) (whether affection be personal or of high ideals). And again, "from hill to hill the monkeys weighed down the Devadaru trees as they passed along, and obtained not fruit in sufficiency, as suppliants from lords whose favour is ineffectual" (S. X. 14). These two instances come, it should be mentioned, in one of Asvaghosa's more highly developed passages of Kavva writing, in which, as in so many of these, coincidences with the later Kavva can be traced.

However subtle they may be, similes of this kind from psychology to an observation of nature are handicapped in point of literary satisfaction by their inverse character. When you compare an animal's tail stuck in a bush to instincts of innate nobility, if it is not meant as a bad joke, and we may acquit Aśvaghose of that intention, your mind is really running on the subtle and transcendent psychological process which a

chance fact of nature has suggested. As an illustrative simile one may say frankly that it is a bad one, and so used, lacks literary charm. It is more easy to appreciate the value of these introspective similes when the poet is illustrating not external objects from the mind, but one phase of consciousness and conduct from another.

In a passage modelled closely on the Ramayana the chariceer is appealing to the young Suddohana by all human ties to abandon his ascelic intentions and to return from the forest to the palsee (B. VI, 31 fl). "Therefore reject not thine aged loving father, devoted to his son, as an athesist the true religion, and forget not thy second mother outworn in thy upbringing as a thankless man a good deed, and abandon not thy lady, virtuous daughter of a noble house devoted to her lord, as a coward the worldly fortune in his hands, nor relinquish thy noble child 'Assodhara, as a waster relinquishes his high good name" It is all perhaps a little tedious and mechanical in this sustained form, and yet there is a distinctive interary elements in the blending of the double psychological theme, which, in Aśvaghoga's time was probably new to Sanskit's poetry (as distinct from philosophical wirting.)

The cardinal point in Asvaghosa's psychology, especially in its ethical bearing, lies in that distinction between the self and senses, or between the mind and senses, which is the moral background of Kavya poetry. Quasi-personification of the senses-the "enemies", the "steeds"-had become a commonplace of literary writing long before Asyaghosa's time. It is Asvaghosa, however, who creates out of this quasi-personification a deliberate and laboured system of psychological simile. We have seen one instance above, in which the five arrows of Mara. symbols themselves of the five senses, remain inert against the Buddha as the senses of a saint. In another passage, the ordered moral life of the individual becomes the picture of the well-ordered state. "As the king followed this course, his servants and citizens behaved likewise, even as the senses of a man in disciplined devotion with peace in his soul and mind at ease."

# प्रमाताके चेतरिस विप्रसन्ने प्रमुक्तयोगस्य यथेन्द्रियाति। B. II, 45.

And sime here carries with it, no doubt, not only its primary sense of religious discipline but also the germ of the contrast between devotion to religion and devotion to the State, of assections and the royal life, elaborated, for instance, in the eighth Sarga of Kalidasas Raghuvamasm. Similarly, the state of the five senses at different points of psychologicial experience is called no to illustrate the stitude of disciples to a teacher, the approach of the five beggar disciples to Buddha in asceticism and their subsequent desertion. The former thought takes a curious turn:—It is not the senses surrendering themselves

to the mind but the complete well-being of the successful worldly man, which points the comparison, "Five beggars desirous of being released saw him there and came near to him as sensual objects to a lord whose good works have won wealth and health" (B. XII, 89). And later on, they abandon him as the five elements leave the wise man on his release (B. XII, 111), प्रभावतः here meaning apparently the five sensual faculties. Not unconnected with the latter simile is that from the consciousness of dving. Says the man in the street, when the charioteer returns without the Suddodhana, "There is no desire in us to live without him as in bodily beings at the passing of the senses" (B. VIII, 12). In another passage life goes from the body as a departing guest. More definitely psychological is the transference of idea from the grief of a man's own dying to that of the Hedonist relapsed from Heaven on exhaustion of his merit (8, XI, 51).

It will be seen that, in most of these instances, it is not the mere conventional analogy but the appreciation of a conscious process of thought or feeling, which gives to these similes of Aviaghosa, pedantic as they might seem, their peculiar vitality What coinces may there be of the emotional and moral conflicts the philosopher-precis in Buddha's convolation to Saundarananda on parting from his wife? When Saundarananda is following the saintly life she will have no happiness in her home, as in the mind of a philosopher, pure and at peace, his purpose finds no pleasure in passion (S XVIII, 60). There is the same sense of mental conflict in the simile from divorce for renunciation of passion. Saundarananda is tempted in the forest by sensual thoughts and abruptly cast saide the idea of passion that is atumbling block to devotion as a wise man angered at heart puts asside a woman of loose conduct, howsoever dear (S XVII, 8)

In a more conventional tone the sensual delights forced on Suddhödhans recall the familiar temptation of the saint, "The punce was led by force to the grove filled with troops of women as a saint whose vows are fresh, fearful of stumbling-blocks is led to the palace of the lord of Alaka where lovely Apsaras danor "(B. III, 65). Kubera and Indra are after all, in Kávya poetry, little more than symbols for earbly royalty Asiaragiosa too, no douth, had reluctantly attended a palace Nautch.

It is far from being the case with Aśvaghosa that interest n human affection is absorbed entirely by the theme of passion. but the quieter emotional experiences of ordinary friendship present fewer opportunities for the psychological simile. Ingratitude has been mentioned as a simile for desertion of the home. The purely conventional as simile for desertion of the Arman seed only be mentioned on the one hand as linking of dharma need only be mentioned on the one hand as linking up Ksvya with the sententions, moralising, for instance, of Manu,

and on the other hand, as a parallel to the simple simile for external proximity which was the starting point in this acticle. More distinctive is the saying, "Friendship with bad company is as unstable as good fortune in the hands of a coward" (B. XI. 3) (another reminiscence of the passage on desertion of the family). But this is very different from the subjective analysis of one psychological experience with a view to heightening the value of another, which constitutes the special note of most of the similes outcode.

These notes on Aśwaghosa's use of the psychological simile may suggest something of the peculiar mentality with which this intellectual approached his enforced, if not, one suspects, wholly uncongenial task of inculcating doctrone through Kavyas. The self-expression in poetry of the philosophier-massionary gave the intraspective thought a place in hterary Nanskru which, but for his agency, it might not have assumed. To complete this study it would be necessary on the one hand derive the origin of this feature from the unilterary writing of the earlier Sanskrit philosophers and from the earlier form of intentater in the cpic, and on the other hand, to follow out its influence in the Kâvya of the classical period. It would probably prove to be not the least weighty of the touchegiven by Aśwaghosa towards shaping the course of Sanskrit poetry.

CALCUTTA: February, 1929

## The Language of Aśvaghoşa's Sāundarananda-Kāvya

## By SURUMAR SEN

# INTRODUCTORY

The text of the Stundarananda, a poem in Sanskrit by Aśvaghōva, has been for the first time edited by Mahāmahō-pādhyāva Haraprasāda Šūstri in the Bibliotheca Indica series and publication of this poem, one of the most noteworthy specimens of Sanskrit kāvya literature, which was so long lost, forms a most valuable contribution enlarging the horizon of our knowledge of Sanskrit literature, for which we are indebted to the scholarship of this doven among Sanskrit szrand\* in India.

It is extremely fortunate that the text of the poem is preserved in Aton, and in a much better condition than that of the Buddhausrita, the only other poem extant of Advaghōsa, charring the dramatic fragments discovered in Chinese Turkistan) <sup>1</sup> As a piece of poetic composition the Säundarananda by farecels the Buddhaearita <sup>2</sup> which was perhaps the earlier work. Though there exist no Chinese or Tibetun versions of the Säundarananda, yet there is reason to believe that in India it was more widely read than the Buddhaearita <sup>2</sup> The popularity of an author or work can frequently be attested from the number of lines or verses which have passed into the speech and have become part of its treasury of proverbs and bons mots. Some of the verses of the Säundarananda have passed into the stock of "good sayings" in Sanskrit Belles Lettres. Thus, part of the following verse:

vacančna harantı varnanā nisitēna praharanti cētasā | madhu tisthati vāci yōsitām hrdayē halāhalam mahad visam ||

'They with their words take away (the faculty of) speech, and with (such) sharp (weapons) they smite the hearts (of men); honey lies in the tongue of women, and deadly poison

Rdited by Professor Luders under the title 'Bruchstücke Buddhistischer Dramen,' Berlin, 1911.
 The Buddhacarita of Aévaghöss, E B. Cowell, Oxford, 1893.

<sup>3</sup> The Saundarananda-Kavya, editor's preface, pp. xx, xxi.

in their heart' [S. <sup>1</sup>8. 35]—occurs in Bhartrhari's Vāirāgya-Šataka amplified with a conceit:

madhu tisthati väcı yösitäm hrds halāhalam ēva kēvalam | ata ēva nipīyatē 'dharō hrdayam mustibhir eva tädyate || 2

Even the great Kālidāsa has borrowed phrases and expressions from Aśvaghōsa, which will be shown infra.

The language of the Saundarananda, though not violating Pāṇini's grammar to any very great extent, is interesting, as it differs materially from the stereotyped classical Sanskrit of the Kāvya literature. It is, in fact, a link between the epic Sanskrit, as in the Mahabharata, and the ordinary grammatical ' classical ' Sangkrit.

From the formidable array of grammatical forms not in ordinary use, which remain only as grammatical currosities (and scare-crows to the students of Sanskrit), one is tempted to think that the Saundarananda (and also the Buddhacarita) was written by the poet as a text-book for teaching Sanskrit to his pupils. The following passages with their uncommon verbal forms remind one strongly of the Bhattikavva evidently it is Grammar and Belles Lettres both, which Asvaghosa seeks to combine in it- work

1 8=The Saundarananda

2 This verse is the verse No. 3380 of the Subhasitavall where it is attributed to the joint authorship of Kälidasa and Magha. This confusion is due to the antiquity of the verse. Bhartrhan's Niti-satuka contains two verses which are ascubed to Bhadanta Asvachosa in the Subhasitavall. These are-

> kadarthitasyapi hi dhairyawrttei na sakyate sattragunah pramärstum | adhimukharyanı krtasya vahner nddhah sikhā vāti kadācid ēva !

\*The placedity of temper of one who is patient of mood cannot be dostroyed even when he is insulted; the flame of the fire which has been put face downwards does not proceed in a downward direction | No 528 of the Subhasitavali = No 227 of the Sarngadharapaddhati | This verse occurs in the Papearantra with the variant (bc), buddher ringso na hiśankaniyah adhahketanyipi tanünapütah

> násvákrtsh phalats nájva kulam na silam redyā sahasregunitā no ca vāgvišuddhih karmüni pürvaéubhusanouyasuncutini kālē phalanis purusasya yathawa vrksāh

'Neither the appearance, nor family, nor character, nor learning although a thousandfold in extent, nor again clearness in speech does bear fruit only the deeds of a man with their accumulation of merit gathered up from yore boar fruit in time, even as trees [No. 95 of Telang's Edition. No. 310 of the Subhasitavali | Three other verses in the Subhasitavali [Ros. 198, 229, 314]] are scribed to Askvaghösa.

```
a v a r dh i s t a gunāih sasvad
a v r dh a n mitrasampadā |
a v a r ti s t a ca vrddhēsu
n ā v r t a d garhite pathi || [2.26].
```

'[Suddhôdana] perpetually increased in virtues, and prospered in the fortune of friendship: [he] attended the aged, Iand] never trod in the nath that was blamed'

```
dānāir ajasrāir vipulāih sēmam viprān a s u s a v a t |
rājadharmasthitatvāc ca kālam sasyam a s ū s a v a t |
```

With incessant and bountiful gifts he caused Brahmins to press Soma (i.e. hold the Soma sacrifice): through his adherence to kingly duties he would cause the harvests to be produced in [proper] time ' [2 31].

```
sarāir a sī sam a c chatrun
gunāir bandhūn a rī ram a t |
randhrāir n á c ú c u d a d bhṛtyān
karāth n á pī pi d a t prajāh ||
```

'He quelled his enemies with [his] arrows; with his virtues he captivated his friends; he never led his servants to difficulties; he never oppressed [his] subjects with taxes' [2, 27].

```
ruro da mamlāu verurāva jaglāu
babbrāma tas thāu velalāpa dadhmāu |
cakāra rosam vicakāra mālyam
cakurta vastram vicakarsa vaktram!!
```

'She wept, she became pale; she cried she drooped; she wandered, she stood still; she mourned, she blew; she felt aagry, she threw away the garland; she tore at the clothes, she scratched her faco' [6. 34].

```
śrutvā talah sad-vratam u l s 1 s 1 k s u m
bhāryā-d i d 1 k s u m bhavanam v 1 v i k s u m \
nandam nirānandam apētadhāvyam
a bh u u j j i h ī r s u r munr ājuhāva ||
```

'Then on hearing that Nanda, cheerless and devoid of patience [was] desirous of giving up the good wow, and wished to see [his] wife, and to enter [his] home, the sage wishing to resoue him, called [him]' [10. 1].

Examples can be cited ad infinitum.

The poem, although didactic, by no means lacks in high poetic excellence. The style is easy and graceful. The poem is studded with beautiful similes. The following may be quoted as illustrative instances:

virējur hariņā yatra suptā mēdhyāsu vēdisu | salājāir mādhavīpuspāir upahārāh kṛtā iva ||

Where the deer looked beautiful, sleeping on the holy altars: together with mādhavī flowers and fried paddy—they looked as if they were offerings [on the altars] [1, 12].

sā hāsahamsū nayanadvīrē phā pīnastanābhyunnatupudmakōsā |

'She was swan-white in (the brightness of) her smile; she was bee-eyed (in the darkness of her glances); and her full breasts were like upstanding lotus buds' [4. 4ab]

tasyā mukham tat satamāla patram tāmrādharostham cikurāyatāksam ļ raktādhikāgram patitadvirēpham sasāvalam padmum ivābabhāsē 🎚

'That face of hers, with tamāla-leaf decorations with upor and lower lips both red, and with wide eyes extending to her sudelocks, looked beautiful like a lotus deep-red at the tip, with a (black) bec resting in it, and having (dark) moss (at the edge) 'fe. 21].

nisannavaktrā na rarāju cāšu vuvarnacandrēva himāgamē dyāuh ||

Like the sky in winter, its moon in pallor, pale of face, she too did not appear bright for a long time ' [6 9ed].

lēkhāratham ādoršam ananyacittō vibhūsayantyā mama dhārayitvā

bibharti soʻnyasya yanasya tañcci namoʻstu tasmai calasahrdaya !!

'After having held the mirror in fiont of me (to enable me) to draw the (sandal paste) figures (on my cheeks) while adorning myself—his mind not being elsewhere all the while—should he be bearing the same mirror for some other present [(only) make my humble bow to hun of a fektle heart \* [6 18]

sā cakravākiva hhrsam cukūja šyēndyra-paksa-ksata-cakravākā | vispardhamānēva vīmāna-samsthāih parāvatāih kūjana-lola-kanthāih ||

She wailed, disconsolate like the female cakravaka duck whose mate's wings have been injured by a hawk and rivalling, as it were, the pigeons seated on the terrace pavilion, their throat femitting | sweet coolings [6 30].

töbhir vrtā harmya-talē' nganābhis cintā-tanuh sā sutanur babhāsē | satahradābhsli parivēstitēva satānka-tēkhā sarad-abhru-madhyē || 'She, with her slim figure emaciated with anxiety, and surrounded by those ladies on the floor of the palace, appeared like the thin crescent of the moon surrounded by lightning flashes in the midst of autumnal clouds' (6. 37).

vahnāyatē tatra sitē hi srngē samksipta-varhah sayıto mayürah | bhujē balasy áyata-pīna-bāhor vāidībaua-kēvūra ivabahhāsē ||

'There [in the Himalayas] upon the white peak the peacock roosting with its plumes gathered in looke like fire; the peacock looked beautiful, even as the beryll armlet on the arm of the long-and-stout-armed Balarana' [10.8].

> kūsūi cid āsīm vadanāni rējur vanāntarēbhyas cala-kundalāni | vyāviddha-parnēbhya ivākarēbhyaḥ vaimāni kādamba-viahaltitāni ||

Through the recesses of the woods the faces of some of the ladies with their daugling carriags appeared beautiful, even as lotuses through the thick-leaved lotus plants swayed by grey swans [10, 38]

These quotations would suffice to show that Aśvaghōsa was a great poet, and that it reflects no discredit on the great Kalidāsa if he thought it better to develop some of the suggestive similes of Aśvaglōsa

It is admitted on all hands that Kälidäsa was posterior to Aśwaghösa It requires no fresh proof to establish this, though thousand and one fresh ones can be given.

Kälidasa was probably indebted to the Säundarananda for the execution (not the mostly of the Kumārasambhava. It would require a separate paper to discuss the common features of these two poems. Some phrases and expressions from the Säundarananda are given below, which are found unchanged in the works of Kälidasa.

kım atra cıtram yadi [vîta-möhô vanam gatah svastha-manā na muhyēt] |

'What is strange here, if he, once gone to the forest, rid of his infatuation and easy in mind, were not to yield again?' Il6 84!.

Cf. kim atra citram yadi [kāma-sūr bhūr vrttē sthitosyādhipatēh prajānām] |

Mr. Kahstresschandra Chattopāthyāya in his learned paper on The Date of Kalidias, 'reprinted from the Allahabad University Studies, vol. II, has tried to show, from the comparison of similar ideas from the works of the two poets, that Kalidias preceded ākvaghöşs; but from the very same comparisons one can easily deduce the converse proposition.

'What is to be wondered at here if the earth give the desired objects to you who practise (all) the duties of the lord of men ?' [Raghuvamśa 5. 33].

[pramadanam| agatir na vidyatë, 'for women, there is no forbidden place, i.e. they are ever and everywhere irresistible'

18 441. (f. [manorathanam] agatir na vidyate, 'for the wishes of the heart there is nothing forbidden or unapproachable '[Kumarasambhava 5. 64].

```
[karnânukülän avatamsakäms ca]
pratyarthibhūtān | iva kundalānām | |
```

'Flower decorations matching the ears, and defying, as it were, the earrings '[10, 20].

```
Cf. pratyarthibhutām [apt tām samādhēh
   susrusamanam giriso' numëne
```

'Girsia allowed her who was willing to serve (him), though [she was] an obstacle in his meditations' [Kumarasambhava

1. 591 | ...nanrtus tathanyah ... | dana-bhinna-{hara} 'some again danced about with their necklaces displaced from [their] breasts [10 36].

Cf [cacāla bālā] stana-bhinna-|ralkalā], 'the girl moved and her bark garments (were) displaced from the breasts' Kumarasambhava 5. 84

```
[babhūva sa hi samvegah srēyasas tasya vrddhayi ]
dhator adhır ıvakhuate pathıto 'ksara-cintakaih !! }
```

'That mental agitation of his served for the growth of (his) fortune: just as the prefix adhi is attached to the root (s) (to give a new root in the lists) by those who busy themselves with syllables (i e , grammarians)' [12, 9]

Cf. dhatoh sthana wadesam suariram sammuaresavat '| Rama] established Sugriva [firmly | like the stem form in place of the root' [Raghuvamśa 12 58]1

śruta-mahata [śramanena] by the śramana of great learning' [9. 50]

' Peace of mind could not in any way be attained by him as his soul was filled with passion; just as the vort ast as an indeclinable is fixed in its form in the three tenses. [12, 10]. [1.3] to star was an indeclinable is fixed in its form in the three tenses. [12, 10]. [1.3] to be about dearwardship and praktis pratyoya-yōga-samishah [1.4]. Then the union of the bridegroom and the bride appeared like the union

of the stem and the affix' [Raghuvansa 11. 56]

<sup>1</sup> It is remarkable that Asvaghosa and Kalidasa have given only two grammatical similes each in addition to the above the others are

natu kāmātmanas tasva kēnacīd jagrha dhrtih [ trisu kālēsu sarvēsu nipāto 'stir iva smrtah il

Cf. Sukumar Sen, Indian Historical Quarterly, Vol ii, p. 657 ff

Ci. [sarasvati] sruta-mahatām [mahīyatām] 'may the knowledge of the great learned be honoured' [Abhijñānasakuntala, VIII].

[số 'niscayān] nâpi yayāu na tasthāu, 'owing to indecision he could neither move nor stay' [4. 42].

Cf. [sāildahirājatanayā] na yayāu na tasthāu, 'the daughter of the king of mountains neither moved nor stayed' [Kumārasambhava 5. 85].

sasānkalēkhā [saradabhramadhyē] 'like the crescent moon under the autumnal clouds' [6, 37].

Cf. sąsānka-lekhām iva pasyatô divā sacētasah kasva manô na dūvatē ||

'Looking at her as at the crescent moon in day-time who is there with a heart whose mind does not ache?' [Kumāra-sambhava 5. 48].

[katham kṛtô 'siti jahūsa côccāih mukhēna] sācīkrta [-kundalēna] |

She laughed aloud; "how have you done?"—her face awry, with its earrings, [4, 19].

Cf. [yathavakāšam nināya] sācīkṛta [-cāruvaktrah] |

'He passed the while, his handsome face turned sideways' [6.14].

vätéritah pallavatāmrarāgah [puspējivala-krīr iva karnikārah] |

'Like unto the karnikāra (tree), swayed by the breeze, red in hue with its twigs, charmingly bright with blossoms..' [18, 5].

Cf. pracakramě pallavarāgatāmrā prabhā patangasya munēš ca dhēnuh |

'The cow of the sage and the rays of the sun, both red in

hue like new leaves, began to move' [Raghuvaṃśa 2. 15]; and—86 widerida-pallawa-'ngulihim tuwarēdi via mam kēsararukkhao, 'this kešara tree urges me, as it were, with its finger-like moving shoots' [Abhijhānašakuntala I].

The Bhagavadgita must have been known to Asvaghosa, as some of the verses in the Saundarananda seem to be paraphrased from the Bhagavadgita. Thus:

tatah smrtim adhisthäya capaläni svabhävatah | indriyanindriyarthebhyo nivarayitum arhasi ||

'Now since you have resorted to contemplation it is proper for you to check the naturally fickle senses from [enjoying] the objects of the senses' [13. 20].

Cf. tasmād yasya mahābahō nigṛhītāni sarvašah | indriyānindriyārthēbhyas tasya prajňā pratisṭhitā || O long-armed one, of hun, whose senses are completely restrained from the enjoyment of the objects of the senses, the knowledge is firmly grounded [Bhagavadgtā 2 68]. Compare also Bhagavadgtā 2 . 58

risayāir indriyagrāmā no teptim adlugacchati | ausram pūryamāņā 'pi samudrah salilāir īvu ||

The senses do never attain satisty in the objects [of the senses], like the ocean though incessantly supplied with waters' [13 40]

Cf. rägadvī savimuktāis tu visayān indriyāit' caran [
āmavasyāir vidhēyātmī prasādam udhigacchati]

'Employing the senses purged of attachment and abhorrance and under the control of the self, the self-controlled one attains peace' | Bhagavadgita 2. 64|;

and-āpuryamānam acalapratistham samudrum āpah pranisanti yadvat [

'Just as the waters enter the ocean that is being filled up.....' [Bhagavadgita 2, 70]

# THE LANGUAGE. As has been previously remarked the language of the

Skundaranands stands between the epic Sanakirt, as in the Mahäbharata, and the 'classical' Nanskirt of the grammarians Except a very few stock words and phrases it has no affinities with Buddhistic Sanakirt. It has greater affinities with the epic Sanakirt.

Examples of forms and usages which do not ordinarily occur in classical (Paninian) Sauskrit alone have been quoted

The text having been preserved in a much better condition, there occur much fewer anomalous forms in the Saundaranands than in the Buddhacarita. Some of these again may be ascribed to the blunder of the scribes.

Some peculiar forms are noted below .

Nominal forms: parrau, shower [2, 53 etc.] used as neuter throughout, so also in B 1. matura 'friendship' [8, 1], mstead of māitra, or māitra; srausāin [accusative singular of the feminine of servesat, 'cozing'; 8, 52] instead of servesatim ; srethedneme; s'-best, most exalted' [18, 34], (this is found in the epics, 'sradādahrānatā', faith' [12, 30], occurring in the Manusamhitā 7. 80; of. sradādahrānatā', rustutu'l' [Vāmanapurāna].

Verbal forms: grhya, 'having taken' [1. 28], occurring in the epics, also in B., avaihi. 'know you' [16. 14. 48] instead of aochi; avaitya, 'having perceived' [16. 23], instead of avetya.

B.=The Buddhacarita, edited by E. B. Cowell, Oxford, 1893.
 It occurs in the Vedic: also in Avesta, sractalema.

#### 1. THE NOUN : USE OF THE CASES.

The use of the cases in S., is interesting as it has some very remarkable differences from that of classical Sanskrit. It is discussed below in some detail.

## The Accusative

The cognate accusative is a characteristic feature of the Vedic language: but in classical Sanskrit it is of very rare occurrence. In S, as well as in B., the cognate accusative is found frequently, especially with verbs meaning 'to speak'. In this point the language of Asvaghosa has some agreement with Buddhistic Sanskrit where however it is found to a far greater extent

Examples: tapasas tepire tapah, the hermits practised penance' [1. 16]; brahmacaryam cacara sah, 'he led the life of a religious student' [11, 4]; dîryham ca nihêvasya vacê bhyuvāca, 'sighing heavily he uttered the speech' [4 33]; pramriya cd sruni vacamsy uvaca, 'wiping out the tears she uttered [these] words' [6, 38], cf. gambhira-dhirāni vacāmsu uvāca, '[the sage] uttered | these | grave and calm words' | B. 1. 59]; kramanah... vākyam uvāca mpriyam. 'the sage spoke the unpleasant word' [8 22]; krtā nialir vākum uvāca nandah, 'Nanda, with folded palms, spoke the speech' [10, 49; 18 39]; cf. tanayam vakyam uvāca sākyarājah, 'the king of the Sakyas spoke the word to the son' [B. 5 36]; sagadqadam vākyam idam babhāṣē, 'he uttered this speech chokingly' [5. 7]; vānīm mām ātmagatām nagada, 'he muttered this speech to himself' [17 62]; cf vanim ca bhavyarthakarim uvaca, 'he spoke the speech full of auspicious meaning' [B 1 34]; giram ity uvāca, 'he uttered this word' [6. 20, 10. 47; B. 7. 51, etc.]; bhāikeyam caran, leading the life of a mendicant' [8. 59]; of cacara bluksam sa ca bluksuvaryah, 'he, the best of the Bhiksus, went abegging' [B. 10. 13]

The accusative with verbs: vi-grah: pranatan anujagraha vijagrāha kula-dvisak, 'he was favourable to those who submitted [to him, but] fought with those who were enemies of [his] race 101.—vi-graha is generally construed with the instrumental of. katham anëna sardham vigrahitum samarthah syat, 'how can he be able to fight with him?' [Pancatantra]; smr regularly construed with the accusative of person (so also in B.); abhi-car: yas tvām priyô nabhyacarat kadācit, 'as [your] lover never did false by you' [6. 21]; anu-dah: tam anudahyamanah, '[they] mourning with her' [6, 36]; srad-dha: 1 'to believe' [in a peculiar sense]:

antar-bhūmi-gatam hyambhah śraddadhāti naró wethā 1 arthitvē sati yatnēna tadā khanati gām imān ||

<sup>1</sup> See under the Locative.

'When a man believes [that there is] water underground, and if there is need he digs that ground carefully [12. 33]; sassibipathim yadi na vā śrad dadhyāt karsakah keidās, 'if the tiller do not believe in the raising of crop in the field '[12. 35].

Varial nouse ending in—2, e.g., propylphin grams to getter me, -a my desire is for entering the house [8, 13]; and govern the accusative [2, 6, 64 · 5, 13; 8, 7, etc.]; also the works nous ending in—date: yutata as assumbiaragatans without na kiriakoh kakana whakirakoh kakana whakirakoh katana whaki

The accusative has once been governed with the adverb anyaira: rastram anyaira balair na sa kiñcid adidapat, 'he never cut anythme excent the kingdom with this! forces' [2, 33].

The 'upasarga' prati has been used with the accusative to denote various case-relations. Thus-munau bruvanena tu tatra dharmam dharmam prati jñātisu câdrtēsu, 'though the sage [was] preaching dharma and [his] relations being attracted to the dharma ... '[4. 1]; nandah prayanam prati tatvari ca. 'Nanda hastened for going out [4. 40]; bhaktim sa buddham prati yam avocat, 'the reverence which he professed for the Buddha' [6. 17]; vrddhyavrddhyor atha bhavec cinta jnati-janam prati, 'there would be anxiety about the weal and the woe of fone's' relatives' [15 30]; süryah sa rambhām pratı jāta-rāgah, 'the sun, he had love for Rambha' [7. 26]; rambham prati sthula-"ıra mumurcha. 'Sthülasıras was infatuated with Rambha' [7. 36]; atha samrādhito nandah śraddhām prati maharsinā, 'now Nanda was drawn to faith by the great sage' [13. 1]: jagama ndivôpasamam priyam prati, 'he did not become cold towards [his] beloved' [9 1]; grhu-prayanum prati ca nyavasthitam sasāsa nandam sramaņah sa sāntayē, 'the sage admonished Nanda who resolved to go home, for the peace [of his mind]' [9. 4]; čvam-ādih kramah sāumya kāryo jāgaraņam prati, 'such procedure. O gentle creature, should be adopted for keeping awake' [14. 28]; jahihi calam svargam prati rucim, 'give up the mind for the unstable heaven' [11, 62].

In one instance the accusative has the sense of the causal instrumental or ablative, vii., tudeal loke main; jātā lūzaja nagraham caran. loke-dharmāir na livpatā, similalya sage born in the world and living as a boon to it. is not concerned with the duties and obligations of the society '13.61.

# The Instrumental

Cognate instrumental: tutah krumāir dhirghatamāih pracakramē, 'then he strode with biggest steps [4. 45]; tayā ratyā hhiramsyasē, 'you shall enjoy—with that enjoyment' [11. 35].

.....

<sup>1</sup> So also in the Buddhaesrits.

The instrumental with verbs: pari-ks:p, 'to throw, to sprinkle': tad-āsramamahīm yām tu pariciksēpa vārinā, 'that portion of the ground of the hermitage which he sprinkled with water." [1. 13]; sic [2. 24]; pari-sic [5. 53; 10 53]; lip [13. 4, 5, 6]; krid : yatnēna pravigāhya sāgarajalam ratnasriyā krīdati, 'having plunged into the waters of the sea plays with the fortune of jewels' [16.98]; bhid: to be separated'; svajanah svajanëna bhidyate, 'a kinsman has rupture with [his] kinsmen '[8. 33]; wrdh; 'to grow, to prosper': avardhista gunāih sasvad avrdhan mitrasampada, 'he ever flourished in [his] virtues, and prospered with the fortune of friends' [2. 26]; ram: 'to rejoice': Unabhireme tu gurör mahimna, 'he rejoiced in that greatness of the master' [5. 4]; ramaté treitô dhanaériyā ramatē kāmasukhēna bālišah ramatē prašamēna sajjanah, 'the avaricious reloices in the fortune of riches; the foolish rejoices in amorous pleasure; the good man rejoices in continence' [8. 26]; sam-i: 'to be united with'. tvam ābhir niyatam samēsyasi, 'you shall ever be in their company' [10, 63]; vi-spardh: 'to rival with'; vispardhamāniva vimāna-samsthārh pārāvatāih kūjanalola-kan, thank, rivalling, as it were, with the pigeons seated on top floors, their throats sweet with cooing' [6, 30]

The verb rum is used peruphrastically with samum, and saha: doispayano dharmo-parāyanas a rēmē samam kāšisu vēša-ordhvā, 'the virtuous Dvāipāyana sported with a hetaera in the Kāsis' [7. 30]; yadā klešoipādāth saha na ramatē satru-bhi va, 'the does not find pleasure with the causes of pain as

with enemies' [14, 52].

The instrumental with nouns—some of these are used periphrastically with saman, sardham or saha; artha [12, 13]; kārya [11, 35]; trpti [5, 23]; yuddha: kurusen yuddham saha tāvad ındriyāih, 'make battle with the senses' [9, 22].

The instrumental with adjectives and adverbs: arthin 12. 34. 35]; varijuta [8. 21]; vinägka, "separated," pringuğa. vinäkṛtaḥ, divorced from his wife [8. 20]; vinhīna [14. 38]; sānṇa [1. 38]; sama [5. 28]; samtale [4. 2]; yunutsu, desirod of fighting. kikārūbāhi, saārābam yunutsuh, 'wishing to fight with the enemies the pains' [17 33]; vinā [8. 13]; kina [7. 25, etc.].

The adverbial instrumental: dhanavateu caranti tṛṣṇayā dhanahinēsu caranty avajñayā, '[women] deal greedily with the rich, and slightingly with the poor' [8, 40].

#### The Dative

The dative with verbs: in S. the verbs meaning 'to speak.' etc., are as a rule construed with the dative, and very rarely

<sup>&</sup>lt;sup>1</sup> This idiom is found in the Mahabharata and frequently in B., e.g., diväkaraneva vinākrtam nabhah, 'like the sky bereft of the sun' [8.5.]; etc.

with the accusative. This a very old idiom which is but alightly preserved in the classical Sanchrit; the dative with verba meaning out to pay the property of the Brahamans "Thus 'scall [6, 68]; and [

The dative with substantives and adjectives: spife, ideairs' (sibhupk kim it is 2 spife, i'w) you desire for them i' (11, 31), of no kidale igam senapasukhāga me' spife, i'this is not yo desire for the heavenly pleasure' [B R 63],—spife is regularly construed with the locative in classical Sanderii segularly construed problem praticipative and biagatom praticipative construed in the celestial nivnih; i'll si wiske ii yasqu kimarasasqii si mandi, o'd him who is a knower of amorous pleasurets the mind is eager for renuncistical (12, 21).

Dativus commodi: sa të kun arthum kuruë tvam va tasmëi karoni kam. what good does he do to you and what do you do to him? [15 40]; rajas talhāsmāi munir ācukarsa, 'so the sage drew rajus for him '[10. 42].

Daily or finals occurs very frequently, and often elliptically friengend managing dark assurings, a love the hermits practising austerities for the heaven. [1 17], gith leads, idehtening assured the stage larm? [2 31]; teams leaves as a reptogr, thence the [semonal placeures] are not conducted to make [1 11 22], in Fryam h waverddlage, provess is for all prespective [16 98]; rapping teather wishood for victory [17 231].

yê mrgyumānā dubkhāyā roksyumānā na sāntayē | bhrasiāh sōkāya mahate prāplās cu na cutrptayē ||

'(The pleasures), which being sought [cause] unhappiness, which being pursued [ido] not [serve] for peace, which, when lost, is a cause] for sorrow, and which, when attained, [do] not [conduce to] sately '[15, 9]. Dativiz causalis.

> yoqdcāras tatháhāram \urirāya proyacchati | kevalam ksud-vighātártham na rāgēna na bhaktayī ||

'Yōgācāra similarly allows food to the body only for quelling hunger, [and] not out of attachment or reverence [14, 19]. This is very peculiar,—it might be due to metri causā (bhaktayā instead of bhaktīyā).

<sup>&</sup>lt;sup>1</sup> This verb also governs the locative, which is very prouhar; see

<sup>2</sup> Panni [2 3.44] proscribes only the locative and the instrumental.

#### The Ablative

syath: parebhy naps visyathe, 'he did not suffer from the enemies [2. ct. 12-22]; ni-syath: bhiugānā ināŋyavibhaxad viviyyathē, 'he recoiled from other's property as from a viper' [3. 31]; sikis [1. 31]; rams [2. 25]; abhi-gam, 'to attain' [3. 27]; aam-bru 'hear' [5. 36]; pari-rate [6. 47]; cal [7. 34]; [3. 27]; aam-bru 'hear' [5. 36]; pari-rate [6. 47]; cal [7. 34]; vi-muc [14. 44]; par-vṛt [15. 6]; aam-hṛ, 'to collect' [15. 27]; vi-sādhay, 'to purify' [15. 68]; vāray, 'to prohibit'; na dosatah patsyath yō hi dovam kas tom tato vārayitum samarhah, 'who can restrain him from sin him who does not find sin ns in' 7 [16. 76]

The ablature with substantives: riraneā, desure of abstanting, rarmanā yadi tamānī, if you have a desire of abstaining from it [11.34], nirmumukaā, 'desure of emancipation i dukhāhā yadi nirmumukaā, 'desure of emancipation i dukhāhā yadi nirmumukaā, 'i there be the desire of escapning from psin '[16.25]; parāmmukha: usanaūzasukhā parāmukhat, 'distinctined to the plesaure of dwelling in forest' [8.13], etc The following example—parābhyah samsargam parāharati yak kuntakam inc. who avouds others' company like the thorn' [14.50]—is a contamination between parābhyah parāharati and pratau simnargam.

The ablative is found with the adverbs rte, vinā, and

prabhrti [15. 59]

The ablative with a superlative formation: tato bhusket trads-patirājiyād apı sukham, 'then he enjoys the pleasure superior to that of the dominion of the lord of gods' [14.52], ct., hechoyeh yyeshio rudrād api, 'the god of love is greater than Rudra' Mahtbharata 13.85 17—4031].

The ablative for the superlative genitive:

kraddha-dhanam krësthatumam dhanëbhyah prajitärasas trptikarë rasëbhyah |

pradhānam adhyálmasukham sukhibhyó 'vidyāratir duhkhatamā ratibhyah ||

'The wealth of faith is the best of all the wealths; the enjoyment of knowledge is [best] conducive to satisty of all enjoyments; the spiritual happiness is the chief of all kinds of happiness; the pleasure of autiqui (false perspective) is the sorriest of all pleasures '(5. 24).

hitasya vaktā pravarah suhidbhyah etc., 'one who gives good advice is the best among friends' [5, 25].

In the following instance the adjective implying comparison is dropped: paramahilā dahanato' pyamanyata, 'he regarded [all] women other [than his wife] worse than fire' [3. 32].

Ablativus causalis occurs in 1. 41; etc.

Elliptic ablative: mahdpanëbhyo vyavahärinaéca mahāmunāu bhaktivahāt pranëmuh, 'the merchants from big shops bowed to the great sage out of reverence' [5.1].

## The Genitive

The genitive with verbs: anu-kr, 'to imitate': anucakrur vanashasya dausmanter devakarmanah, 'they emulated the forest-dwelling son of Dusmanta, of divine activity' [1 36]: vadhür grhe sapı tavanukurvati karisyatê strisu viraginih kathah. 'she, the daughter-in-law, emulating you, shall discourse on the topics of renunciation, among the ladies' [18. 59]; adhi-i, 'to study': adhyāista yah param brahma nādhyāista satatam dhrick, 'who contemplated the supreme Brahman, but did not always contemplate on restraint' [2, 12]; prajūamayam varma badhāna tasmān aāisyantı nighnasya hı sökabānāh, 'put on the mail of knowledge: whence the arrows of sorrow would not reach one who is low' [5. 30]; srad-dhā: necchanti yāh sokam avantum tram traddhatum arhanti na ta naranam, 'these [women] who do not wish to come by such sorrow should not believe in men' [6. 19], śru. tathápi tām eva tadā sa cintavan na tasya susrava, 'still thinking of her he did not hear [him]' [9. 1]2; rājyam kr.: rājyam krtvāpi dēvānām papāta nahvs: bhuni, 'though reigning over the gods Nahusa fell down upon the earth' [11 44]3; ruc: na martiesu na devesu pravritir mama rocate, 'living among men or gods does not appeal to me' 112. 147 . apa-krs : bhojanam krtam atyalpam kariranyû pakarsatı. 'food taken in very small quantity does harm to the body' [14 4]; brū: vijānatah pasyata ēva caham bravims samuak ksayam asravanam, 'I preach the destruction of the pains only to the knowing and the perceiving [man]' [16 46]6.

The gentive used for dativus commodi:

lēkhārtham ādarkam ananyacitto vibhūsayantyā mama dhārayitvā |

bibharti si'nyasya janasya tan cēt nami'stu tasmāi cala-siinhydiya [[

'Having [previously], with all attention, held the mirror for toilet before me when I were dressing, if he [now] holds it before another person, a how be to that one of fickle attachment' [6 18]

The objective genitive. sattvānām canukampayā, 'out of pity for the creatures' [2.55, a; hitasya vaktā, 'the speaker of

<sup>1</sup> The genetive here represents the Old Indo-Aryan (Vedic) dative.

<sup>2</sup> The genitive here may represent the accusative or the ablative; but is very likely that the genitive is a possessive one, some such word as excamm being suppressed

<sup>&</sup>lt;sup>3</sup> This is an old Indo-Aryan idiom lost in Sanskrit, except—though very rarely—with the verb is.

<sup>4</sup> The gentive might represent the locative which is found in the classical Sanskrit, e.p. bhatiyā gurāu mayyanukampoyā ca [Raghu].

The accusative with the agent noun in tr is not found in S.

The denderative adjectives ending mas regularly govern the accusative; the desiderative nous in \$\delta\$ has been construed with the

the good' [5 25]; sokasya hartā saranāgatānām, 'the remover of sorrow of those that have taken refuge [in him]' [7. 5]. cf. 1 45; 7. 31; didrksayaksiptaman'i munes tu, 'he, whose mind was diverted, for desiring a sight of the sage ' [4 40]; mahaughasyottitirsaya, 'out of a desire of crossing the great flood' [14, 16; cf. 14, 17].

The subjective genitive with past participles in -ta: 6. 40; 9.11.

The absolute genitive does not occur in S.

#### The Locative

The locative is a very living case in the Saundarananda. The verbs which are construed with other oblique cases elsewhere are here construed with the locative Moreover, it is used with a great number of substantives and adjectives in various case-ideas.

The locative with verbs; vrt; avartista ca vrddhēsu navrtad garhile pulhi he was under [the guidance of] the aged: he never took to the wrong path' [2. 26]; 3. 40; 9. 43; pra vrt anukulam pravariante jūdissa yūdiayo yadā, when the kinsmen deal favourably with [their] kinsmen' [15 37]; pra-mad: kāmēsv ajasram pramamāda nandah. Nanda plunged deep in [sensual] pleasures' [2 63]; vi-mad: nisāvivāsēsu cirād vimādyali, 'for long one exults in nocturnal revelves' [9, 30]; nam' munaye nanāma sa guráv imi, 'he [the king] bowed to the sage, as if to the superior' [3. 27]; pra-nam:2 pranamya ca gurau murddhna, 'bowing with the head to the superior' [12.12]; mahāmunāu bhaktīvašāt pranēmuh, 'bowed to the great sage out of reverence' [5. 1]; sarvēna bhāvēna gurāu pranamya, 'with all feeling bowing to the superior' [17. 1]; pranamam kr : kartum gamısyāmi gurāu pranāmam, 'I shall go to do homage to the master [4. 32]; jnā (desiderative): jijnāsamānā nāgēsu kausalam svapadesu ca 'secking skill with the elephants and the [wild] animals' [1 36]; vi-smi : śriprāptāu na viṣismiyē, 'did not rejoice at finding fortune' [2. 2]; vi-ni-yōjay: yasmād aham tvām vininojanāmi sirē sucāu vartmani vipriņē 'pi, 'as I engage you in the auspicious and pure, though distasteful, path' [5. 46]; car: visayesu caran, 'enjoying the objects' [14. 39];

qunavatsu carantı bhartrvat qunahinesu carantı satruvat | dhanavatsu caranti trsnayā dhanahīnēsu caranty avaiñavã. II

accusative only once, viz., prayiyāsā grham ēva yēna mē, 'because of my desire of going home '[8, 13].

1 See under the dative, supra

<sup>2</sup> The dative is an alternative idiom here; see supra.

'[Women] play the master over the virtuous; they play the enemy over those who lack virtues: they deal thirstily with the rich; they deal spurningly with the poor' [8. 40].

ram: kughki, ramati, finds pleasure. In a bad house, [9, 37]: 6, 47, 9, 44, 45, 8, 12, stand-dharme parame rame, I rejoice in the supreme dharma of yours' [12, 16]; tra-dhā: nārhi yady apnnā na vajāc chradhādhājāl tan arba would not have believed in the fire-stick in the had no need of fire' [12, 34]; ā-ānak: 19 ream-āh priyaviprayuktā priya' hynd čāskikya oz ār yajāda, 'thus the lady separated from [her] husband, suspecting him for something else, spoke thus' [8, 90]; abhi-han: 1epirah intalia isabhi-jaghar), smoto like the thunder on a himilia tree' [7, 30], pr: ozdakir gris sizpi turd makurrati kurajard strisu virāgais kuthāi, 'she, the daughter-in-law, too, emulating you, would talk to the ladies on the topics of remuncation' [18, 89], n'anax kas hammu visasari, 'who would believe in him i' [15, 50]; ghraāya,' to feel abhorrence':

dystv áikom rūpam anyô hi rajyatē 'nyah prahysyati | kaścid bhavati madhyasthas tatraivâ 'nyo ahrnāyatē ||

'On seeing a form one is attracted, another is charmed; but another feels abhorrence in the very same' [13, 52].

The locative with substantives 2: aruruksa: sive katham te paths ndruruksa. 'why [you have] no desire of taking the auspicious road ?' [5. 40], didrksā: didrksāsya munāu babhūva, 'he had desire for having a look at the sage' [18, 2]; asit purastat travi me didrksa, 'at first I had the desire of having a look at you [18 33]; pravnaksā: ata ēvu ca mē višēsatah pravivaksā. tvaņi, 'so [I have] a special desire of speaking to you' [8 11]; vivaksita; atô 'str bhūnas tvan mē vivaksitam. 'so [I have] a desire of speaking to you again' [18.53]; sanga, company': sangam éti jané janah, 'man finds company of man' [15 39]; abhimana, 'pride' bale 'bhimanas tava kena hētunā, 'why this your pride of strength ?' [9.7]; balasthatā: balasthutam atmani yena manyase, as you think of possessing odukumum umam yran mangues, he you guma o possonomistength in yourseli [9 6]; prutjihā ; yogāma naisjāma-visi-sakāyam teagiti kṛtoš mayi tām prutjihām, 'having made this promise to me, "I shall come back before your decorative naints are dried"' [6, 13]; mogha-sāmus: tathā hi kṛtoš mayi mogha-santsum, 'so giving me a bluff consolation' [6, 16]; kraddadhānatā, 'faith, trust': krēyasi kraddadhānatā, 'faith in the good' [12. 30]; prasāda: bhūyah prasādam ca gurāv iyāya, became again well-disposed to the master' [17. 30]; munau prasādam yadi tasya hi syāt, 'if he had been well-disposed to the

<sup>&</sup>lt;sup>1</sup> The instrumental is an alternative idiom here; see supra, <sup>2</sup> From the Old Indo-Aryan stage the locative with substantives was often an alternative idiom for the possessive genitive.

sage' [6, 17]; balâbala : balâbalē câtmani sampradhārva kārvah prayatnah na tu tad-viruddhak, 'having realised (your) own strength and weakness, trial is to be made, and not its opposite' [16. 52]; mūla, 'source' vīruam param kārua-krtāu hi mūlam. prowess is the supreme source of a successful deed' [16, 94]; apadeśa, 'pretext': bhaktim sa buddham prati yam avocat tasya prayatum mayi sô 'padesah, 'the reverence which he professed for the Buddha is only his pretext [shown] to me for going away' [6. 17]; anuvrtti: kva canuvrttir mayi sasya purvam tuāgah kva câyam janavat ksanēna, 'where is that obeving me [as | of old and where is this escape like the [common] people' [6. 19]; dosa; mā svāminam srāmini dosam āgāh, 'do not ascribe to the master the offence [which are generally committed by the husband' [6 22]; pravrtti 'news': śrutrā tato bhartari tam pravrtim, 'then on hearing that news of [her] husband' [6 24]; soka: rājarsi-nadhvās tava nānurūpo dharmakrite bhartari jatu sokah, 'it is not meet for you, the wife of the royal sage, to mourn for the husband '[6.39]; raga, 'attachment', travi vas ca ragah, 'that attachment for you' [6. 47]; hitarsıla; adhrtan yadi yam hitaisita mayi te syat, 'if you have good wishes for me in [mv] disconsolateness' [8. 10]; hrdaya: katham arhatı tasu panditô hrdayam sanzayıtum calâtmasu, 'how can the wise care to win the heart of the ficklemmded?' [8.46]; icehā: tathā tathēcchā visayēsu vardhatē, 'so and so does increase the desire for the objects [of the senses]' [9 43]; dhrti: parām dhrtim parama-munāu cakāra sah, 'he had supreme reliance on the great sage ' [10, 64].

The locative with adjectives : sranta : babhava tapasi srantah kāksīvāniva gōtamah, 'he became hard-worked in austerities like Gotama, Kāksīvant' [1. 1]; tasthīvāms: tasthusah salvu karmasu, 'of him practising the six practices' [1. 44]; sthita: sthitah kartayuge dharme, 'practising the dharma of the krta age' [2.25]; akutühala: visayesv akutühalah, 'indifferent to the objects [of the senses]' [2, 25]; anukampaka: ity ēvam uktah sa tathāgatēna sarvēsu bhūtēsv anukampakēna, he being thus told by the Tathagata who sympathised with all beings' [5 33]; samartha: yāvad vayô yōqavidhāu samartham buddhim kuru krēyasi tāvad ēva, 'as long as the age is capable of the practices of uoqu, so long do you make up your mind for [acquiring] the good' [5.49]; vācya nikhilēna ca satyam ucyatām yadi vācyam mayi sāumya manyasē, 'do speak the entire truth, if you, O child, think it [proper] to communicate to me' [8, 6], satysna: kāmēsu hi satrsnasya na šāntir upapadyatē, 'peace does not come to him who is athirst of sensual pleasures' [11. 37]; āgata; ātmani duhkham āgatam, 'pain [that has) come to oneself' [9.41]; kusala: kāma-caryāsu kusalah, 'experienced in amorous activities' [11, 4]; viklava: bhiksucaryasu viklavah, 'averse to the duties of a bhiksu' [11. 4]; jata: vai inatva tvavi jatam me hasyam karunyam èva ca, knowing which my laughter and pity have been excited for you' [11 23]; alrata: trpir nāsināhanāir agnēh nāpi; kāmētv atrplasya, fire has no satiety with fuels... or of one unsatiated with sensual pleasures' [11.32]

Note the following example:

adadatsu bhavanti narmadāh pradadatsu pravišanti

vibhramam | pranatēsu bhavanti garvuūh pramadās trptatarāš ca kāmisu ||

'Women become entertaining to those who do not pay: they adopt coquetry towards those who pay; they become haughty towards those who submit to them; and they become very satisfied with the amorous [18, 39].

The causal locative tad erddhau vardhair dharmo mularrddhau yatha drumah, the dharma thrives with the thriving of faith, just as a tree thrives with the growth of its roots' [12.41]

#### 2. COMPOUND FORMS

The compounds m S, rarely exceed bur component words. The following compounds are peculiar videa videiganal videa videiganal videa videiganal videa videiganal videa videiganal videa videiganal videi

#### 3 THE VERB

One of the most striking characteristics of the style of Aśvaghōsa is the excessive use of finite verbs. This is a great contrast with the style of the classical poets not excluding Kālidāsa.

#### The Tenses

The perfect is the regular leave for denoting the past to occurs 460 times, and with 10x verbs. The corrist occurs with 11x times, and with 61 verbs. The imperfect occurs with 19 verbs and 38 times. The ratio between the perfect and the norist is a little less than 4. I, between the norist and the unperfect about 3:1. In the Buddhacarita, however, the ratio between the perfect and the corrist is about 19:11.

The periphrastic future occurs only once, viz., kartaemi

Notwithstanding the absence of Panni's sanction for such a compound, we do this such compounds in classical Sanskrit, e.g., arthalipsu described fighting and compounds and compounds of the compound of th

sarvam bhagavan vacas ië, 'I shall do, O Lord, all that you say' [5.50].

#### The Moods

The optative is used for the conditional here:

tām sundarīm cēn na labhēta nandah

sã vã niṣēvēla na tam natabhrūh

dvandvam dhruvam tad vikalam na sobhētā-

nyô-' nyahînâv iva rāti-candrāu ||

'If Nanda had not married that beautiful lady, and if that arch-browed girl had not served him, then certainly the couple, separated, would not have looked fine like the night and the moon bereft of each other' [4, 7].

In the following verse the optative denotes the past tense:

sā tēna cēstālalitēna bhartuh

sāthyēna cantarmanasā jahāsa | bhavēc ca rustā kila nāma tasmāi lalātajihmām bhrukutim cakāra ||

'She laughed within herself at that graceful misbehaviour of her husband, she feigned to be angry with him, and accordingly, made a frown twitching the forehead '14, 15.

The passive imperative is found in 8. 4. 6; 13 22, etc.

The conditional occurs only once 'hato' bhavisyam yadı na vyamokşam, 'I would have perished if I had not attained the spiritual release' [18, 41].

## The Participle

The perfect participle is used both as an adjective aw well as a finite verb. Thus (i) as adjective: δολέπα εκ mell as a finite verb. Thus (i) as adjective: δολέπα εκ mell as a peipusāma rājursayō' nug' γy αυκά wielduḥ, even lost their balance of mind' [5. 29], cf. 3. 22; (ii) as finite verb: akrifarhō na dada'ā yō' sag darkanam iyuvān, no one who ever saw him did look unastisfied' [2. 8]; yam kabānāma nighmarā nicio jarā, whom old age smote with a single shaft' [9. 18]; sunstrah punarāyttib garhhavāsam urpējušān, 'Suneta again came to reside in the womb (i.e., was born again)' [11. 57]; bhrāna sannēgam iyuvān, 'was very much perturbed at heart' [12. 4].

The past participles are generally used with a finite verb meaning to be': katham krtô' si, 'how could you do it?' [7.18];

dvāipāyani dharmaprāyaṇas ca rēmē samam kāsisu vēsavadhvā | yayā hati 'bhūc calanūpurēṇa pādēna vidvullatayēva mēghah || 'Dvāipāyana, though a spiritual man, enjoyed a heterot at the Kāsis; and by whom he was killed with her do adorned with the jingling anklets like a cloud smitten with the streak of lightning '[7, 30]; 9, 9, 10; 14, 45; 17, 66; panar apı camı sennada cam, 1 agan bow to him' [17, 73] Sometimes the finite verb is not used: aham hi daniş hid manundaham, 1 sun really bitten at heart by the Loveserpent' [10, 55]; yuru qrham no blaqavin pravistab, 'our lord the master has entered the house' [4, 30].

In the Saundarananda not a single instance occurs where the present partorple (the possessive past participle ending in 4-arsat) It is either used as an attributive adjective, or as a predicative adjective with a finite form of the root as. Thus:

syenāya prānivātsalyāt sva-māmsāny api duttavān | sivih svargāt paribhrastas tvādṛk krtrāpi duskaram ||

'Sivr, who gave his own flesh to the Syönn out of mercy to the creatures, and having done such a feat, was ejected from the heaven' [11.42]; of prüptavön m 11 60; wasyönn, tyuktavön asi, 'you have given up the [enjoyment of the objects' [11.27]; yodq app pratisambhyönil ölümün utsatasin asi, 'a syou have given up sensual pleasures for the sake of contemplation' [15.4].

## The Conjunctive

The conjunctive has sometimes been used ungrammaticuly (i.e. not having the same subject as the finite verh as prescribed by Fāmm), as is found in the Great Epic as well as in late classical Sanskrit. Thus jäänink at digtgi vurstinis gihachtön samvan na citit ist na västi citali, seeing (your) kunsenn as religious memiciants, who were formetly house-holders, does it not provoke your thought !— or, have you no heart? (i. 3.71); bivyak esamülökya grikeşt doğan nikimya tat tiğağıktam cu dharma | niridsis hibbitum matir jängons k, 'having repestedly noticed and found fault with the home life, and having learnt that tharma of renunciation, you have no desire of eulyving comforts at home? [5, 30]:

śrutva hydvartakam svuryam samsārasya ca citratām | na martyčsu na dēvēsu pravritir mama rocati.!!

'After hearing the impermanence of heaven and the unstability of the world, I have no inclination for either men or for gods' [12, 14];

dosavyālān atskramya vyālān grhagatān iva | ksāmam prāpāasya na svaptum nestrūrsor mahad bhayam ||

<sup>1</sup> The Buddhscants too abounds in such ungrammatically used conjunctives.

Disregarding the defects that are like ferocious animals that are at home, it is not meet to sleep for the wise one who is desirous of escaping a great fear ' [14, 29];

kāyasya krtvā hi vivēkam ādāu sukhi 'dhigantum manasô vivekah, 'having at first attained physical indifference, it is

easy to come to mental indifference (14.46).

The conjunctive used absolutely with kim1: kim indrivanam upagamya dasyam, ' what is the good of serving the senses?' [5. 25]; kim indriyarthartham anartham udhva, 'what is the good of carrying misfortune for the sake of the objects of the senses?' [5 26]

#### The Infinitive

The infinitive has been faultly used in: sukho'dhigantum manaso vivekah, 'it is easy to attain mental aloofness' [14. 46]; tasya prayatum mayi so 'padēsah, 'that is a plea (offered) to me for his leaving (me) ' [6 17].

# THE VOCABULARY

The most striking feature of the vocabulary of Asyaghosa is his excessive use of the desiderative formations. The following desideratives occur in S .-

Substantives ditsa, 'desire of giving' [2. 5]; bubhutsa; 'desire of knowing' [3. 6]; jigisā, 'desire of winning' [5 32]; anuisahrksa, 'desire of doing a favour' [3. 15]; anujighrksuta, the same [18 47]; vininīsā, 'desire of training' [3.21]; didīksā, 'desire of seeing' [4. 40; 18 2, 33]; ārurukṣā, 'desire of mounting' [5. 40]; pravivaksa, 'desire of speaking' [8. 11]; vivaksa, the same [11. 18]; prayiyāsā, 'desire of going' [8. 13]; jighāmsā, desire of slaying' [11. 18]; titādayisā, 'desire of driving out' [11. 25]; ipsā, 'desire of getting' [11 28]; lipsā, 'desire of gaining' [11. 26]; riramsā, 'desire of abstaining' [11. 34]; tilīrsā, desire of fording' [14 17]; uttitirsa, the same [14 16]; nirmumuksā, 'desire of escaping' [16. 25]; cikīrsita, 'desire of doing ' [8, 9].

Adjectives: yiyāsu, 'desirous of going' [2. 6, etc.]; didrksu, 'desirous of seeing' [2. 46, etc.]; sisayisu, 'desirous of lying on ' [3.22]; vivaksu, 'desirous of speaking' [4.29, etc.]; nirmumuksu, 'desirous of emancipation' [5 5]; mumursu, 'desirous of dying [5. 39]; ujjihīreu, 'desirous of takıng out' [5. 47, etc.]; jijivisu, 'desirous of living' [6. 23]; pravivakeu, 'desirous of saying' [8. 7]; prarivikeu, 'desirous of entering' [8. 16, etc.]; utsisrksu, 'desirous of giving up,' viviksu, 'desirous of entering, abhyujjihirsu, 'desirous of rescuing' [10. 1]; pipasu, 'desirous of drinking' [10. 11, etc]; jighāmsu, 'desirous of destroying'

<sup>1</sup> Cf. Pānini's aphorism, alamkhalvāh pratisēdhayāh prācām ktā [3, 4, 18].

[10. 43, etc.]; didhakşu. 'desirous of burning '[10.53]; mannaksu. 'desirous of esosping '[14. 11], etc.]; pipatisu, 'desirous of falling' [14. 15]; sustifirau. 'desirous of esosping' [14. 20]; rijirau. 'desirous of keoping awake' [14. 24]; chirisu. 'desirous of keoping awake' [14. 24]; chirisu. 'desirous of interiors' [17. 5]; yayalasi, 'desirous of fiphting' [17. 23]; jijirau. 'desirous of victory' [17. 56]; mannaksu. 'desirous of escaping' (18. 13]; vicates.' desirous of whelm [1. 18].

Finite Vents: prairie sait, 'ine westes to enter' [8, 15]; tilirati, 'the wishes to cross over or escape [8, 17]; jight-sait, 'the wishes to take [8, 18]; tilirati should cross over [9, 10]; ashitipsast, 'you desure to get '[10, 63]; citrisant (see) they wish to buy '[11, 26]; citaturgi, 'the should wish to cure'

113. 551.

Conjunctives and participles: citalwaysis, eee supra [4, 14]: iiphrkeast, see supra [6, 5]; ujikhirandi, see supra [6, 18]; iiphrkeast, see, supra [6, 5]; ujikhirandi, see deirous of getting [6, 6]; ipsaul [6, 23]; ipstal [9, 4]; idvani, desirous digving [10, 10], mumurani [1, 5] idkirah, desirous digving ijujikan, see supra [18, 55], cikirani, see supra [17, 5]; vinkstaki, desired to be spoken [18, 55].

## Adnominal verbs

karunāyamāna, 'feeling pitv' [5 21, [this word occurs twice in B. and no other adnominal verb occurs there]; eahnāyatā, 'it resembles a big fire' [10 8], rājājatā' be behaves like a king' [10 26]; manājannāna,' geting dull' [16.56]; jārājatā,' feels abhorrence' [13.52]

The only intensive is—cankramy isva, walk on and on'

114, 251

In S. as well as in B. the regular name of the Himalayas is the old word himmend, and only once, himagiri The late form himalaya which occurs in the Kumāra-sambhava of Kālidāsa does not occur in the works of Ašvaghōsa.

The following are the rare and p-culiar words that occut in the Saundarameda: arbatepia, "descring" [1. 20], !arsa, thirst, longing [2] 19, etc], !auhmatahā, anniety [2. 32, 39]; akahamataha, na navious '[1. 27], !auka. ladam. 'beautiful' [4 27, 22, 40, 6 43 etc], \*imātria, 'separated' [8. 20]; \*aradaāhānā; fishth '[12 30]; \*önikara, 'fine, clever' [13. 16]; \*nanā\*, riphsuure, hoppiness' [16. 44. 45]; kauta, 'sin' [16. 78]; \*vāh\*, afraid' [17. 61];

#### REPETITIONS

In the Saundarananda the same phrases and idioms often occur repeatedly. These are the repetitions

mukhina sacikrakundakun, 'with the face having the earrings awry' [4. 19]; mukhina tiryan-natakundakun, 'with the
face having the earring bent sideways and downwards' [6. 2].

ivābabhāsē, '(it) appeared like..' [5. 52, 53; 10. 8; 17. 61].

giram ity uvāca, 'utsered this speech' [6, 20: 10, 47].

agusé as yāspanti co yānti cdiva, 'they did go [in the past), shall go [in the future), and they go (even now) '[5.43]; cakruh karieganti ca kurvati ca, 'they did do, they shall do, they do (even now) '[7.13]; cēruk cariyanti carinti cativa, 'they did, shall do, and (even now) do practise [austerities]' [7.13].

vilalāpa tat-tat 'she wailed so and so '[6 12; 7, 12].

krtānjalır vākyam uvāca nandah, 'Nanda spoke with his palms folded' [10. 49; 18. 39].

na caltro citram yadı, 'there is nothing strange here if..' [9, 3]; kim atra citram yadı, 'what is strange here if..' [16, 84] rāpret laksmim apidām jiŋīşah, 'like a king wishing to win the fortune not yet won' [16, 85]; rāp'ou dēkām apidān jigāsan, 'like a king wishing to conquer the country hitherto uncom-

quered' [17, 56].

mudanāskakāryu, 'solely addicted to the pleasures of love'
[4, 1, 10, 35].

#### THE RHYMED VERSE

It is an interesting fact to note that the rhymed verse occurs in S. The earliest occurrence of the rhymed verse is to be found in the Mahabharata and also in the Ramayana. In late classical Sanakrit we find such verses very occasionally, as in the verses ascribed to Ghatakarpara Rhymed verses written in Apabhrunnia are to be found in the interpolated verses in Kahdasa's Vikramörvast.

These are the rhymed verses and half-verses that occur in the Saundarananda:

> sā rodanārositaraktadṛṣtih suntāpasaṃkṣōbhitaṇātrayaṣṭiḥ | papāta sīrṇākulahārayaṣṭth phalātibhārād iva cūtaṇastih ||

'Her eyes slightly reddened with weeping, her slim body surging with sorrow, her necklace disturbed, she a slight figure, fell down like a mango tree under the excessive load of its fruits' [6. 25].

> darīcarīṇām atisundarīṇām manōharasrōṇī-kucōdarīṇām | vṛndāni rējur disi kunnarīṇām puspōlbirāṇām iva vallarīṇām ||

'The groups of Kinnaris who dwell in caves, who are exceedingly beautiful, who have lovely hips, breasts, and waists, appeared charming like creepers that have put on blossoms' [10. 13].

tāu dēvadārūttamagandhavantam nadī sarakprasravanāughavantam ļ ājagmatuh kañcana dhātumuntum dēvarsimantam himavantam āsu ||

'They two came to a certain part of the Himalayas, that was sweetly perfumed with the Deodar trees, that contained rivers, lakes, and springs, that was full of metal ores, and that was inhabited by the gods and sages' [10 5].

The last line of this verse does not rhyme Perhaps metrical difficulty was on the way

sa duh khajālān mahatā mumuksur vimok samārgādhigamē viviksuh \ printhā nam āryam paramam didrksuh samam vayāu kiñeid upāttucaksub \}

'He who was desirous of escaping from the great net of pain, of entering into the way to emancipation, and of finding the supreme path of righteousness, became somewhat calm endowed as he was with (spiritual) might '17. 131.

> sadvyttavarmā kila somavarmā cacālu cittidbhavabhinnadharmā |

'Somavarman, his good deeds being his armour, roamed about, his piety being (after all) shattered by love that grows in the heart' [7-42].

calatkadambē hīmavannitambē tarāu pralambē camaró lalambē |

'On the slopes of the Himaiayas, where the kadamba flowers quivered, on the danging branches of the tree, the yak wandered about' [10 11].

The rhymed verse occurs also in B. [1, 14, 15, 2, 40; 4, 27, 30; etc.]

#### THE METRE

Metrical defects are to be found in 4 7 cd and 7. 37 cd, where c does not end in a word but carries the last syllable to the next foot.

The verses in the Saundarananda number 1 063. Fifteen metres have been used in the poem. These are as follow:

(i) Samavrtta

Śloka [8 syllatiles] – 384 verses Upnjati [11] – 459 verses, Vanásatha [12] – 78 verses, Praharsini [13] – 4 verses, Ruoira [13] – 1 verse, Vasantatilas [14] – 10 verses, A new metre [14] – 2 verses (see infra), Sukharini [17]—10 verses,
Kumitalakwellita [18]—1 verse,
Sardillaviretlita [19]—6 verses,
Suvadani [20]—2 verses,
(ii) Ardidaeamaytta
Puspitägrä—4 verses,
A neu metr\*—1 verse,
Sundari—57 verses,
(iii) Fisamaytta—44 verses,

The metre Mandakranta does not occur in S. nor in B. nor in the dramatic fragments ascribed to Asvaghosa. It scems exceedingly likely that Kalidasa was the originator of the Mandakranta metre. The earliest occurrence of this metre is found in the posthumous Allahabad pillar inscription of Samudragupta. Harisêna, the author of this inscription, might have been a contemporary of Kalidasa. That Kalidasa did not know this inscription can be argued from the fact that he did not use this metre either in the Rtusamhara or in the Kumārasambhava. Had he known this inscription, and for the matter of that the metre Mandakranta, it could be expected of him to have used this-one of the most majestic of metres in Sanskrit-at least in the Kumarasambhava which bears all the impress of careful work in which the poet sought to give his vent It is possible that Kälidäsa invented it when writing the Malavikagnimitra, as the Mandakranta verses occurring there are not very smooth and have the impress of a halting first attempt. It became gradually smoother and freer, successively in the Vikramôrvasi, the Abhitñanasakuntala, the Raghuvaméa, and probably finally in the Meghaduta.

In the Săundaranauda are found two metres which have the cadence of the Mandikrantis, and which therefore might in all likelihood have suggested the metre to Ksilidas: the priority in date of Aśvaghōsa to Ksilidasa, and the latter having read and having been influenced by the former should be considered These metres are as follow:

[i] The verse 7 52 [the metre of this verse has been named Kusumitalatāvöllita in the Chandômañjari of Gangādāsasūri 2

but does not occur in extant Kavya literature]—this is a Mandākrāntā verse with an initial heavy syllable:

tasmād bhiksāriham mama gurur ito yāvad ēva prayātah tyaktvā kāṣāyam grham aham ilas tāvad ēva prayāspēļ p pāyyam tingam hi skhalitamanasō bibratah kistabadāhēr nāmutrārthāh syād upahatamatēr nāpy ayam zīval0kaḥ []

The scheme is this—

the scheme of the Mandākrāntā being—

\_\_\_\_\_

[II] The verses 12. 43. 13.56—[the metre of these verses also seems to be unknown in Sanskrit literature; it is one of the three new metres which I have not noticed elsewhere in Sanskrit—this metre is the Mandákránta lacking three syllables at the end, one short and two heavy.

tasmīd ēsām akusalakarānām arīnām caksurghrāņakravana asanāsparkanānām | sarvāvastham bhavati niyamād apramatto

māsminn arihē ksanam apī kṛthās tvam pramādam 🎚

The scheme of this metre is—

compare the scheme of the Mandākrānta—

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# Interpolation in the Brahma Sütram

By M. M. CHATTERJI

There are three sutras or aphorisms in the Brahma Sutram, dealing with the question of food. The first of the trinity is:

सर्व्याद्वासमित्रस्य प्राधातस्य वे तहर्प्यानात्।

Adhyāya III, Pāda 4, Sūtra 28

In the commentary, ascribed to Sankaracārya, this aphorism is based on the two Upanisadic texts quoted below:—

न इद वार्यं विदि किंचनानज्ञ भवतौति। "

Chandogya Up, V. 1. 2

The other text is as follows:--

न इ वा व्यस्थानझं जम्भं भवति नानझ प्रतिस्टक्षीतम् ।

Brhadaranyaka Up., VI. 1, 14.

Both texts unite in teaching that the universal lite or breath eats all that is catten by any individual. He who realises the identity in substance of his life with the universal life does so in thought alone. There is no injunction or permission concerning propriety of food applicable to individuals. This the commentary points out and adds that assuming such permission its operation is to be restricted to risks of death in support of this view the commentary cites an Akhyayika or story from the Chándogya Upanisad. It relates that the sage Cákráyana ate (orbidelon food during a season of famine

The commentator's application of the story to the aphorism under consideration appears to violate a prior aphorism (III, 4. 24) which limits the use of a story to the illustration of the

<sup>&</sup>lt;sup>1</sup> And there is permission of all food, (only) in the case of danger of in. Sacred Books of the East, Vol XXXVIII, p. 309.

<sup>2</sup> To the realiser of this (i.e., unity in substance of his own breath, vitality, or life with the Divine energy, which is manifest as the life in all) nothing that can be eaten is no-food (i.e., prohibited) (The translation follows Sankara.)

<sup>3</sup> He who thus knows the food of Ana (the breath) by him nothing is eaten that is not (proper) food, nothing is received that is not (proper) food. Sacred Booke of the East, XV, p. 204.

proximate vidya or sacred science. The prior aphorism referred to is as follows:---

# तथा चैकवाकातोयवन्धात । <sup>1</sup>

Besides, each of the two texts cited in the commentary relates to Primpsanan or devotion with life as a symbol (pratike) while the Cikiwana story is illustrative of Udgithavidas where the symbol is the sacred syllable Om. The condrada application, noticeable in the commentary, is an exceptical wrone 2

The next aphorism with its short commentary is given below:-

### व्यवाधाच ।

# यतं च मति "बाचारमुद्धौ सत्तमुद्धिः" इत्येतमादिमस्याभस्य-विभागधास्त्रमताधित भविस्तृति। <sup>8</sup>

It will be observed that the word "STUTE" is here taken to mean "food" while in the text itself the word is explained by Satkara in his commentary, thus:—

# चाक्रियते इत्याद्वारः ग्रब्दादि विषयचानं भक्तभीगाय चाह्रियते।

It is clear that according to Saskara purity of mud, by detachment from all agotistic regard for objects of sense genrally is indicated by the words quoted from the text, without any special reference to selection of food. The reference really is to the mental condition in contact with objects of sense and not to objects of sense as such. All Jurking doubts will be disnelled by the words that immediately follow the above:

# तस्य विवयोपलाञ्चलकास्य विकासस्य मुद्धिराकारमुद्धिः, राज-देवमोक्टोवेरसंस्यकं विवयविकासम्बद्धाः ।

<sup>&</sup>lt;sup>1</sup> This follows also from the connexum (of the stones with the vidyās) in one coheront whole S.B.E. Vol XXXVII, p. 305
<sup>2</sup> For commentary in extense with translation see Appendix.

<sup>&</sup>lt;sup>3</sup> And 3n account of the non-sublaton -III, 4, 29 And thus those scriptural passages which distinguish lawful and unlawful food, -such as Cb Up. VII, 26, 2, "When food is pure all nature is pure."—are not sublated S.B.E., XXXVIII, p. 311.

nature is pure."—are not sublated S.B.E., XXXVIII, p. 311.

4 (What one) collects is WIVIC or collection. Perception of sound and the rest is collected for the experience of the perception.

<sup>&</sup>lt;sup>5</sup> The purity of that perception which is indicated by the know-ledge of that (i.e., sound and other objects of sense) is the purity of STRIC. The (true) meaning is that the perception of objects (shall be) intouched by attraction, repulsion, or confusion (of mind).

Sankara, if the author of both the commentaries, must be found guity of palpable self-contradiction, of which, one may make bold to assert, no other instance can be discerned by the most lynx-sighted critic. It would be in place here to notice the commentator's alternative interpretation of the texts cited connected, as it is, with the next aphorism and its commentary. The alternative interpretation is stated in the first place as glorification of one who assimilates the teachings of the two Upanisadic texts referred to in the commentary waster that the commentary waster than the commentary waster waster than the commentary waster waster

# व्यपि च समर्थते ।

The commentary is short enough to be quoted here:-

' व्याप च'' व्यापदि सर्व्योत्तभक्तासमपि ''स्मर्य्यते'' विद्घोऽविद्घ-व्याविज्ञीमेसा।

" जीवितालयमापद्यो योऽह्यमत्ति यतस्ततः।

लिप्यते न स पापेन पद्मपत्रमिवास्थसा" ॥ इति ।

तथा 'मद्य निव्यं त्राच्यायः ।' 'सरापस्य त्राच्यावस्योव्यामासिच्चेयुः' सुरापाः क्षमयो भवन्त्यभच्यभच्यकात्' इति च समर्थते वर्ष्णनमनतस्य ॥ '

The plea of glorification completely fails. As the Sarrti quoted applies to men generally and not to the master of the vidya or sacred Science the Upanisads teach. What applies in the same degree to all cannot be taken to glorify any particular class or its particularity. Finally, it is to be noted that the commontary at the outset mentions the alternative as presenting a doubt to be removed before either is accepted. But in the end it appears to accept both and in the next aphorism sid is invoked in support of the latter alternative, affirming glorification.

<sup>1</sup> And this is said in Smrti also.

<sup>1.</sup> And this is said in Sirgit also.
1. And this is said in Sirgit also be the control of the control

The Bhagavad Gitā teaches with completeness about food deeder. But it would be out of place to consider such teachings at length in the present connection. It would be sufficient to refer to one verse (XV. 14) and Sańkara's commentary thereon:—

# कवं वैश्वानरो भूता प्राणिनां देवसाश्चितः। प्राणापानसमायुक्तः पचान्यक्त चतुर्विष्ठं॥'

Śańkara's commentary on this verse runs as follows --

किस सक्तिमित। सक्तिन तैयानः उदरम्योः स्थलभूति (" समिष-वैयानते सोऽधमनाध्यस वेजेदममं एक्व " हजार्ट सुत्रेत्रेयानः। सन् प्राचिनां प्रास्त्रतां देक्तास्त्रितः प्रविष्टः प्रात्तापानसम्प्राप्ताः प्रात्तापानस्य समायकः संयुक्तं प्रचाप्ति पक्ति करोगः। स्वत्र चतुर्विधं चतुर्यकारं स्वस्त्रार्थं भोज्यस्य भक्तस्योत्यं नेक्कस्य भोक्ता नेवानगोऽधिमींकस्य सम्वस्यास्य स्वतर्यसम्प्रमोनोमी सर्वाति प्रश्लाशाद्योशस्यो । सर्वति ॥ ३॥ ॥

Furthermore, "1" and so torth -1 (a), the Supreme) and the fire or energy in the digestive organ value mentatures. According to the Upmander text, "this fire is Vas'vanara within midvinals and by this soil digested and so forth," "taking the form Vasavinara tend not going for all living forms and united with upgoing and los upong breath (i.e., inspiration and expiration), performs executing as it is to be chewed, anoked, locked, or thunk. The deter is the fire (or energy called) Vasivinara and the fired is Sonia (universal Sapor). To one who views this in its universal aspect, in everl cones from food."

It is to be noted that Sankara does not base the verse of the Bhagawad (lith on the authority of the Upanisadus texts referred to above. The text parity quoted in Sankara's commentary is Brhadāranyaka Upanisad (V. 9) which runs as follows:—

व्ययमाधर्त्रेयावरी योऽयमनाः प्रको वेनेदसद्वं प्रकाते यदिदसयाते तस्यैक घोषी भवति यसेतत् कार्वाविषयाय प्रक्रोति स यदोक्रासियान् भवति वैशे घोषी प्रक्रोति ।

<sup>1</sup> I. becoming Vaisvanara and enterine into the bodies of hving creatures, digest the four kinds of food, being joined with the upward and downward life-breath.
2 Agni Vaisvanara is the fire within mum by which the food that is

The teaching declares to spiritual view or faith the sentient unity of the energy perceived as operative in fire or heat and air or breath whose combined action results in digestion of food of all kinds in all. Sankara derives from it no rule of conduct.

In short, the text teaches that purity of mind depends on its attitude towards objects of sense and not on the character of the objects themselves.

It is to be observed that the text is silent as to any evil arising from use of food. The pronouncement on this point is Sankara's own.

It is clear that neither the text nor the commentary draws any practical rule for the selection of food. The teaching, whon applied to conduct, will be effective in removing hate, content, and strife neulding spiritual antitipathy, based on the use of different kinds of food by peoples or individuals. The consideration of lawful food in Brahmanism is outside the present purpose and it would be out of place to discuss Sankara's conclusion except to point out its complete disagreement with the three aphorisms above considered and the relative commentaries. It is clear beyond the faintest doubt that attribute the authorship of the commentaries to Sankara is to destroy completely his authority as an exegetist owing to his glaring self-contradiction.

The above observations are submitted for authoritative judgment generally and specially on the following points, namely:—

- (1) Was the trinity of Sūtras referred to known to Sankara?
- (2) Was Sankara the author of the commentaries thereon?
  (3) Were the Sūtras interpolated between the time of
- Sankara (7th Century A.D.) and that of Rămānuja (11th Century A.D.) who laid great stress on selection and consumption of food?
- (4) Was the object of such interpolation the preservation of cultural independence against Moslem doctors, notwithstanding spiritual unity?

eaten is cooked, i.e., digested. Its noise is that one hears if one covers one's ears when he is on the point of departing this life. He does not hear that noise. \*S.B.\*, XV, p. 103.

#### APPENDIX

# सर्वाद्वानुमतिस्य प्राचात्ववे तस्प्रेंगात्। २८।

प्राक्तसंबादे अधिते इन्द्रीमानाम्—'न इ वा एवं विदि कि स्वनान झं भवति ' इति । तथा वाणसनेथिनाम्- 'न "इ वा व्यस्थानद्वं जार्धं भवति नानम् प्रतिग्रहीतम' इति । सर्व्यमस्यादनीयमेव भवतीत्वर्थः। किमिदं सळांद्रावचानं प्रामादिवद्विद्याकं विधीयत उत सामधे संकीर्यंत इति संग्रवे विधिशिति तावत प्राप्तम् । तथा दि प्रकृतिविशेषकर उप-देशो भवखतः प्रामाविद्यासिक्षधानात्तदक्रमेनेयं नियमनिद्यत्तिवपदिश्यते । नम्बेवं सति भक्षाभक्तविभागप्रास्त्रकाचातः स्यातः। नैव दोवः। सामाना-विश्वेषभावादाधीपपतेः। यथा प्राणिष्टिसाप्रतिषेषस्य प्रमस्त्रपन-विधिना वाद्यः। यथा च 'न काञ्चन स्त्रियं गरिक्वरेसद् वतस' इत्यनेन वासदेयाविद्याविषयेग सर्वेस्त्यपश्चित्रपनेन तत्यामानाविषयं गन्धागन्धविभागचास्त्रं वाध्यते । यवसनेनापि प्राग्नविद्याविषयेगा सर्व्या-क्रमक्तवावचनेन सक्तासक्वविसागग्रास्त्रं वाध्येतेति । एवं प्राप्ते क्रसः—नेटं सर्व्यात्रामुक्तानं विधीयत इति । न क्षात्र विधायकः प्राटट उपलक्ष्यते, 'न 🗑 वा स्वंविदि किञ्चनानक्षं भवति' इति वर्त्तमानापदेशातः। न चासत्यामपि विधिप्रतीतौ प्रकृत्तिविशेषकारत्वलोभेनैव विधिर-भ्यमगन्तं ग्रकाते। अस्ति च श्वादिसर्थाद प्राथस्यावस्तिसक्तेदस्काते नैवं विदिः किश्विदनम् भवति इति। न च खादिसर्व्यादसम् सन्द्य-देहेशोपभोत्तं प्रकाते। प्रकाते तु प्रागस्यात्रसिदं सर्व्वसिति विचित्त-मितुम्। तसात् प्रावात्तविकानप्रशंसार्थोऽयमर्थवारो न सर्वातानुकान-विधिः। तद्द्यीयति — " नर्जाद्यातुमतिश्व प्राकात्वये "— इति । एतद्क्तं भवति प्राक्षात्वय एव हि परस्यामापदि सर्वभन्नमदनीयत्वेनाभ्यन-चायते "तहर्मानात्।" तथा कि ऋतिस्वाकायगस्य ऋषे कछाया-मवस्थायामभक्त्यभक्तके प्रवक्तिं दर्भयति 'मटकौ इतेम कुरुष' इत्यसिन् त्राञ्चासे। चाकायसः किल ऋषिरागद्दत इध्येन सामिखादितान् कुछ्या-वांचाखार चानुपानन्तु तदीयमुच्चिष्ठदोवात् प्रत्याचचक्ते। कारवाद्याची-वाक्त 'न वा व्यजीविद्यमिमानखादन्' इति, 'कामी म उदपानस्'

हति च। प्रनचीक्तरेशुक्षानेद स्वयरोक्किष्ठपर्श्वीवतान् कुक्सावान् भक्तवाम्मभुत हति। तदेतदुक्किष्ठप्रश्वीवतभक्ताः दर्शयन्ताः मृतेदाश्चयातिश्चयो कक्षाते प्राशास्त्रयभक्ति प्राशासन्तारया भक्तमिप भक्तविश्वमिति। स्वद्यावद्यायान्तु तह कक्तैयं विद्यावताऽपीसनुपान-प्रसाख्यानादुस्यते। तक्कादयैवादी 'न कृषा स्वर्वविटि' हसेदमादिः ।

And there is permission of all food, (only) in the case of danger of life; on ascount of this being shown (by scripture) 28.

In the collogue of the Pranas the Chandogas record. 'To him who knows this there is nothing which is not food' (Ch Up V, 1, 2); and the Vajasaneyins, 'By him nothing is eaten that is not food, nothing is received that is not food (Brh Up VI, I, 14) The sense of the two passages is that anything may be eaten by him .- A doubt here arises whether the texts enjoin the permission of eating anything as an auxiliary to knowledge-as calmness of mind, etc., are-or mention them for the purpose of glorification. - The purvapaksin maintains that the passages are injunctions because thus we gain an instruction which causes a special kind of activity. What, therefore, the text teaches is the non-operation of a definite rule, m so far as auxiliary to the knowledge of the Pranas in proximity to which it is taught -But this interpretation implies the sublation of the scriptural rules as to the distinction of lawful and unlawful food! Such sublation, we reply, is possible, because the present case is one of general rule and special exception. The prohibition of doing harm to any living creature is sublated by the injunction of the killing of the sacrificial animal; the general rule which distinguishes between such women as may be approached and such as may not, is sublated by the text prescribing, with reference to the knowledge of the Vămadevva that no woman is to be avoided ('Let him avoid no woman, that is the vow', Ch. Up II, 13, 2); analogously the passage which enjoins, with reference to the knowledge of the Pranas, the eating of all food may sublate the general rule as to the distinction of lawful and unlawful food

To this we reply as follows. The permission to ent any tood whatever is not enjoined, since the passages do not contain any word of injunctive power; for the clause, "To him who knows this there is nothing," etc, expresses only something actually going on. And where the conception of an injunction does not naturally arise we may not assume one from the mere wish of something causing a special line of activity. Moreover the text says that for him who knows this there is nothing that is not food,' only after having said that everything even

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unto dogs and the like is food for the Prana. Now food such as dogs and the like cannot be enjoyed by the human body; but all this can be thought of as food of the Prana From this it follows that the passage is an aithavada meant to glorify the knowledge of the food of the Prana, not an injunction of the permission of all food This the Sutra indicates in the words, and there is permission of all food in danger of lite'. That means: Only in danger of life, in cases of highest need, food of any kind is permitted to be eaten 'On account of scripture showing this'. For scripture shows that the rsh (Akrayana when in evil plight proceeded to eat unlawful food In the Brahmana beginning, when the Kurus had been destroyed by hail-stones' it is told how the rshi Cākrāvana having fallen into great wretchedness ate the beans half caten by a chief, but refused to drink what had been offered on the ground of its being a more leaving; and explained his proceeding as follows: I should not have hved if I had not eaten them; but water I can drink wherever I like.' And again on the following day he ate the stale beans left by himself and another person Scripture, in thus showing how the stale leaving of a leaving was eaten. intimates as its principle that in order to preserve one's life when in danger one may eat even unlawful food. That, on the other hand, in normal circumstances not even a man possessing knowledge must do this, appears from Cakrayana's refusing to drink From this it follows that the passage, 'For to him who knows this,' etc., is an arthavada.

#### Brahmanism and Costs

## By M. M. CHATTERN

At the outset must be disclaimed all intention of considering the influence of the system of caste on the social and political welfare of a country like India, divided, as it is, into numerous tracts separated not by physical barriers, but loinatio and other natural conditions and subject to periodical famines affecting different tracts. The present subject is the relation of east to spritual life and faith.

Caste has a dual aspect as human type and human institution. In the former aspect caste is natural and in the latter conventional. In the former aspect caste is co-existent with collective human life, be it consciously recognised or be it not. This truth is clearly illustrated by the history of Europe where caste, in the Indian sense, does not and never did, in fact, exist.

Out of the chaos, created by the dissolution of Roman thought and desnemberment of the Roman Empire, arose the supremacy of the Christian Church, as the sole agency for co-ordination and harmony in human society. Shedding uncesential peculiarities this type is Brailman. The assendency of the Church, in outward life of peoples, was ended by the Treaty of Westphalia in 1848 A.D. From the ashes of Church supremacy arose monarchical autocracy, destroyed by the French Revolution Then followed commercial rule, directed towards increase of wealth or possessions until checked by the rise of Labour in Politics. It is hardly necessary to point out that these gradations in collective life correspond to Kshatriya, Vaisya, and Sudra types. The evolution of collective life, above indicated, has created hardly any disorder in English history

In India these four types appear to have been recognised in pre-historic period. The "Purusha Sukta' recognises with functional difference the four types as forming an organic whole.

"The Brahman was His face, the Kingly formed His arms, His thighs what are Vauyas, from His feet were born Sudras."

ग्री त्राक्षाचीऽस्य सुक्रमाचीत् वाक्र राक्षन्यः कतः। जक् तदस्य यहेष्यः पद्गारं ग्रहोऽकाषतः॥

It declares the universe of existence as a conscious individual with the four types as different but inter-dependent limbs of the same person.

The recognition of caste as type can be traced in an Upanisha of the highest class. Satya Kana (herally, "lover of truth"), though of unknown descent, was, for his truthful-noss, invested with the insignia of the Brahman caste and spiritually instructed by Gautama. In this instance an honoured sage placed character over parentiago 1

Light is thrown on the subject in the Mahabharata.

"Of caste there is no distinction. All this passing sphere is of Brahma, created in the beginning. By Karma (conduct) caste-hood is arrived at "2"

Caste as human type is also declared in Bhagavad Gita.

"According to the classification of action and qualities the four castes are created by me Know me, non-actor and

changeless, as even the author of this " 5

Attempts with indifferent success, appear to have preceded the materialisation of the types into scoal and political institutions under the authority of Parasuram. He had destroyed royal families, root and branch. Then the established four castes and having transferred the royal power to nextly formed royal caste through a Brahuam retred from active life.

The Mahabharat shows that the influence of caste did not touch spiritual life, it being confined within the social and political sphere. This is well illustrated in the account given of Dharma Vyadha, the prous hunter, who attained divine faith though leading a hunter's life <sup>5</sup>

A more striking instance is to be found in the ascetic Brahman being sent by the sage Narada to the herbalist Tuladhar for spiritual instruction <sup>6</sup> Narada, well-known in Sanskrit sacred writings, was the

son of a slave girl, corresponding to a Jewish concubine. He is mentioned in the Chilandagya Upanishat as the spiritual pupil of Sanat Kumar?

Vvasa the greatest Vedic teacher was the illegitimate son of the sage Parasara, his mother being a fisher-girl. In

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न विशेषोऽसे वर्णामां मध्ये शास्त्रसिद कारत्।
त्रसायो पृथ्वेस्ट चिक्सोधिवर्णतो सतः।
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Mahabharat, Santi P A., 115.

1 Chhar Up., 1V. 4.

चातुम्बेष्के स्था स्ट मुक्तमंतिभागः। तस्य कर्तारमधि मां विश्वकर्तारमस्यस्य ॥

3 Bhagavad Gita, IV, 13.

<sup>4</sup> Mahabharat, Santi P.A., 49. 5 Mahabharat Vana P.A., 20. 6 Hod., Santi P.A., 26 7 Chha, Up. 7, 1 and 26

popular Brahmanic belief a curse descends on those who refuse to honour the sages on account of their origin.

The secular character of caste is manifest from its present forms. In Bengal learing out Brahmans and Kayasthas, oaste is mainly occupational. For instance Napit or barber is divided into two water-tight castes, viz., Napit or barber, pure and simple and Madhunapit or confectioner. The strictest Brahmans will receive water and confectionery from the latter but not from the former. Jelia or fisher caste presents mutually exclusive sub-divisions—Jelia and Kaivarta. In Amar-kosha the terms are synonymous. The latter in affluent circumstances call themselves Mahisya. Similarly t is found Sankha Vanika (shell-trader), Kansa Vanika (Brasa-trader), Suvarna Vanika (scont-trader) and so forth.

Brahmans of Bengal are mainly the descendants of those trained in the revived Vedic ritualism who immigrated into Bengal in the 8th Century accompanied by the ancestors of high-placed Kayasthas, designated Kulins, that probably m imitation of the differentiation of Brahmanas Kulins and Scotriyas in the 12th Century The Vaidva or Medical caste is peculiar to Bengal. It does not seem unreasonable to believe that the Vaidvas, the most literate caste in Bengal, are remnants of the Buddhist clergy, overthrown by Brahman immigrants in concert with the ruling power Caste rigidity diminishes among Vaidyas according to distance eastwards from Brahmanic centres on the banks of the Ganges. The question is too important and ecclesiastical for incidental treatment. For the present it would not be unreasonable to conclude that caste was not generally taken as inseparable from spiritual life

In the post-Buddhist period, when religious ascendency in Frahmandom generally became the prerogative of monastic orders, the true position of social conventions was shown by the existence of Farnmahansas who still carry some marks of the original Brahmanic belief, disconnecting caste from spiritual life. Paramahansas are accepted as the quintessence of monastic life and free from all rules of conjut, monastic or lay. A sanctified will is believed to be their true and only guido in all things and at all times

The disconnection of caste from spiritual life is clearly and repeatedly declared in the Upanishats. A striking instance may be cited. Svetaketu, the son of Aruna, though by caste Brahman, received spiritual instruction from King Prabahana Jaibali.

<sup>&</sup>lt;sup>3</sup> कैंवलें दासः धीवर

<sup>2</sup> Chand. Up., 5, 3, 5,

An exhaustive treatment of spiritual independence of Kings is to be found in Vedantaratna Srmat Hirendra Nath Datta's "Upanishat". The treatise, being in Bengali, a list of spiritual teachers is given in the Appendix.

The true significance of this repisode is brought to light by the account given of the repisode is brought to light by the account given of the replace. The father found him full oterance has been also have a few and the rest of the result of the result

The spiritual independence of Kings is also declared in the Bhagavad Gits (Cp. IV, 4)

"Thus successively transmitted, this the royal sages knew. By this great lapse of time that spiritual truth was lost. O harasser of thy foes" 1

The expression राजधेयो (Royal Sage) in the verse cited is significant. It indicates a class not mere individuals

In three Sutras or aphorisms the Brahma Sutram sums up the canonical teaching of Brahmanism on the subject. They exhibit the promise of special grace to the seeker for spiritual life, in dissociation from easte and condition of life (Adhvay III.

Pada 4, Sutras 36, 37, 38)

King Janaka's court, according to the Mahabharata (Santi
P.A., 320), was graced by the presence of the spinster Sulava

who held a spiritual discussion with the royal sage.

The considerations set forth above seem to lead to the irresistible conclusion that in canonical Brahmanism caste and sex are subjects wholly of secular importance and completely unrelated to avaigntual life.

The texts that are usually rated as debarring the Sudra caste from acquiring true fath, ace, when properly viewed, indicative of a privilege and not a daqualification. They impose on educated theologians the duty of imparting to the medicasted spiritual instruction without subjection to the necessity of hearing and minding the sacred word. It is the duty of those who have to give to those who have not the right of the poor, the wase to the unwise. But the individual has the right of self-protection on the legal protector's faulture.

In popular estimation claiming the authority of canonical Brahmanism, the spiritual value of a Sudra and a woman of the highest caste is placed on the same footing. They are both considered debarred from the true spiritual life, declared by the

ग्रंथ परम्परा प्राप्तिससं राजवंदी विदुः। म काकीनेच सद्या थीनी महः परमापः।

sacred word. The question affecting Sudras has been touched upon. Affecting women a reference is invited to Rigveda (Moudal X) for the names of women seers of truth, expressed by Vedic Mantras For the present purpose may be named Vak, the daughter of the sage Ambhrina, evidently a spinster The Mantras, first declared by her, are known as the Devi Sukta which literally means Vedic declaration concerning the Supreme, viewed as a woman and form the bridge connecting the Tantras with the Vedica.

The Brihadaranyaka Upanishat (Ad. II. Br. 4.) mentions Maitrayi. the wife of the sage Yajiavaklaya, as having received the highest spiritual light. The same Upanishat (Ad. III, Br. 6) also mentious Gargi, the spinster daughter of the sage Yachak-na, as the only competent questioner of the same sage, in the court of King Janaka. According to Sankara she was gifted with Diving faith (Com. on B S. A. in. F 4. An. 36)

In the Mahabiharata is found the account of the fallen omen Pingula who attained illumination in a single inght and of Sulabha named above. All doubt and dispute are dispelled by the words of the Mundakya Upanishat: winsawawa wifanishe in the injunction is that one desirous of well-being must benour him of true divine faith in disregard of caste and custom (Mund. Up. 111, 11).

This declaration is noteworthy. It shows that caste condition and other things of external life are as nothing before Divine faith.

The following words may, in conclusion, he cited from the "Svetasvatara Upanishat," declaring the right of man as man to spiritual faith --

"Lend ear, ye children of immortality, in the world that is, all mankind." <sup>1</sup>

	APPENDIX	
ROYAL PRECEPTORS.	BRAHMAN PUPILS.	REFERENCE.
Prabahan Jaibali . Atidhanya Saunaka . Prabahan Jaibali .	. Buril Asvatarasvi . Shilaka Dalava . Udara Shandilya . Svetaketu . Svetaketu	Br. Up 5, 14, 8, Chha. Up, 1, 8, 2 Chha. Up, 1, 9, 3 Chha. Up, 5, 3, 5 Big-Veda Kausstaks Up, A, 4
Ajata Satru . Asvapati Kaikeya .	Dripts Balak: Br. Up., 2, 1, 13. Satyajaja, son of Pulusha. Indradumns, son of Ballavi. Janaks, son of Sarvarakaha. Buril, son of Asvataraya Chh. Up. A. 5.	

<sup>&</sup>lt;sup>1</sup> ग्रूकन विश्वे व्यस्तस्य प्रवाः । Sveta, Up. II, 5

... .... ... ... ...



### Monasticism and Brahmanism

#### By M. M. CHATTERJI

The relation between Monasticism and canonical Brahmanism presents an interesting subject for inquiry. If appears convenient to follow the light held out by the Brahma Sutram (Adhyay III, Padia 4) It opens with the declaration that the end of intelligent existence moluding spiritual faith may be hoped to result from the study of the Upanishads independently of external works, conditions, and things,

"The purpose of man (is effected) thence, (i.e., through the mere knowledge of Brahman), thus Badarayana opines."

The word "gavin" (Purushartha) translated above as purpose of man" is usually analysed into four elements according as the will is directed to dharma or righteous works enjouned by scriptures, archa or possessions, kama or delights of life, or mobeha or unconditioned existence Badarayam teaches that these four-fold objects of desire are added to true faith, declared by the sacred words. It would be sufficient to out an Unanshadule text in support of the teachings.

"A pious votary of God obtains whatever division of the world and whatever desirable object he may wish to acquire for himself or for another: therefore any one, who is desirous of honour and advantage, should revere him."

(Raja Ram Mohun Roy's Translation.)

The original Sutras in the order of their citation with the related commentaries of Śańkara and Ramanuja are collected in Appendix 1.

After refuting the opposite view that faith, dissociated from work was disapproved by sacred authority in the Brahma Sutram, it shows that two types of those graced with faith are mentioned in the Upunishads according as faith is or is not associated with works and conditions of life (werstmas).

The third Sutra cites sacred authority showing the co-existence of faith with the house-holders' state of life.

"On account of scripture showing (certain lines of) conduct."

(B.S., III, 4, Sutra 3.)

भ य यं खोवां समसा सम्बन्धाति विद्युवसका कामवते यांच कामान्।

त तं कीकं कायते तांच कामीककादाकक्रमचंदेत् भूतिकामः ॥

Mundaka Up., 3, 10.

While the 9th Sutra shows presence of faith in the opposite state of life

"But the declarations (of scripture) are equal (on the other side)."

(B.S . 111, 4, Sutra 9.)

After dealing with the association of faith with the different conditions of life (asramas) the opposite aspect is dealt with in three Sutras which require special consideration owing to the importance of the subject. The three Sutras are cited below:—

- "But also (persons standing) between (are qualified for knowledge); for that is seen (in scripture)."
- "This is stated in Signit; also."
- "And the promotion (of knowledge is bestowed on them)
  through special acts"

(B.S., 111, 4, Sutras 36, 37, and 38)

The foregoing considerations seem to make it clear that no special spritual value is attached to any condition of life warm (Prabrayla) is mentioned in the Upanishads in the sense of a wandering assettic's condition of life and not us a congregational institution or monastricin. The term 'Prabrayla' is taken as synonymous with warm (Samuyasa) usually translated as remoration. Even in Munu, 'Samuyasa' is taken as the condition of an individual and not of a congregational institution or order.

"But having thus passed the third part of (a man's natural term of life) life in forest, he may live as an ascetic during the fourth part of his existence after abandoning all attachment to worldly objects."

The purely secular and pragmatic value of asramas or conditions of his and the comparative superiority of grhasthya or the household conditions are fully demonstrated in the following Sutra:—

"On account of his being all, however, there is winding up with householder"

(BS.. 111, 4, Sutra 48.)

The position of monasticism in the religion of Buddha is well known. Its adoption and modification by Brahman revivalists is outside present consideration. The Ajivikas and Sramanas appear to be wholly unconnected with Brahmanism irrespective of their chronological origin.

<sup>1</sup> वनेषु तु विद्वतिषं क्षतीयं भागभायुषः । चतुर्वभायुषो भागं त्यका सङ्गान् परित्रजेन् ॥ Manu., C.P., VI, 33.

Sankaracharya is claimed as the founder of Brahmanic monasticism. But it can be asserted without hesitation that from his writings no authority can be cited in support of monasticism, as distinguished from wandering asceticism. There is no evidence of his having changed the name given to him in the home of his birth and he is always described as paribrajaka or wandering ascetic. His commentary on Adhya III of the Chhandogya Upanishad appears to be clearly in derogation of monasticism the external insignia of which, such as staff (danda) and bowl (kamandalu), are condemned by him. His principal disciples were named Padmapada, Hasthamalaka, and Sureswar, quite different from monastic name ending with "ananda". It is significant that Sureswar's original name of "Maudana" was changed into one, not ending with "ananda" He is said to have founded four maths or monasteries. In course of time the personal name and title of Sankaracharya became the official title of the respective heads of the four monasteries in suppression of individual names. This confusion between name and title appears to have led to a fiction hiding the real fact.

But the word "matha" meaning a monastery, is unknown to classical Sanskrit and is not at all to be found in any canonical scripture. In Mahabharata, Hariyamsa, and Panchatantra it means an ascetic's hut.1 To trace its derivation according to the method generally prevailing in Sanskrit seems hopeless. "Vihara", the Buddhist term for a monastery, is of high repute both in Pali and Sanskrit. So far as can be ascertained the present meaning of "math" is truly of recent origin, long after Viharas came into existence, when Brahman revivalists between the 7th and the 9th century adopted monasticism, they in imitation of the Vihara and in assertion of independence converted an ascetic's hut into a monastery. In practice, no Vedic authority is invoked in the consecration of a math, and the ceremony of initiation into any monastic order claiming to be Brahmanical is purely Tantric, without the faintest shadow of Vedic connection. The conclusion seems irresistible that Brahman revivalists took over the Vihara with the propertymark erased and independent proprietorship claimed by inscribing on it the fresh name-math.

With the foregoing observation the question of Buddhist origin of monasticism and its subsequent adoption by Brahman revivalists about the 7th century A.D. may be left to the impartial fudgment of the disinterested.

To conclude: attention seems to be forced to the claim of Brahman Acharyas or preceptors to universality of their

Mahäbhärata 12/5348-3/16069.
 Harivamsa 15857.
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faith founded on their canonical scripture owing to its independence of personality and forms and conditions of external life, thus available for the benefit of all, while preserving their independence in practice.

### APPENDIX I

Brahma Sutram III, 4—Sutras 3, 9, 36, 37, 38, 48. Original Sutras with the commentaries of Sankara and Rāmānuja.

### प्रवार्थीऽतः प्रव्दार्टित वादरायगः ॥ ३॥ ॥ ॥ १॥

प्रदूराचार्थः—व्ययेदानोसीयनिषदसालाचारं किस्मिधकारि-हरिया कसीर्व्यानप्रदिश्चातं चाच्चेतिक् स्वतन्त्रसेत प्रवाणस्याधनं सर्वत इति सोसांससारः निष्टान्तेत्र ताल्युपक्रसते 'प्रवाणदेतः' हति। चतः चा्छान् वेदान्तार्वाच्यात्रस्यानात् कत्त्रसात् प्रवाण्याः हित्रा चतः चा्छान् वेदान्तार्वाच्यात्रस्यानात् स्वत्त्रस्यते, प्रव्याप्यते, साचा । तथा चि 'तर्गते प्रोक्षसास्यति स्वयो च वैतत्प्यत्रस्यान्य प्रचान भर्वति अध्यविदाप्रति परं चाचार्थवान् प्रवाणे वेद तस्य तावदेव चिरं यात्रत्र विसोच्यात्र्य सम्मान्स्य इति 'च चास्ताऽपच्यत्रपार्थाः' इत्याक्षस्य 'स सर्वाच लोकाराप्रति सर्वाच कासान् चल्यसात्रात्रसन् विद्या विभागति चास्ता ता चारे सङ्ख्याः इति चोषक्रस्य 'रुतावरे खल्य-स्त्रत्यं विश्वनात्रात्रका स्वितिच्यायाः क्वसाप्रवाण्येत्रस्य 'स्वत्यं नात्रीयका स्वितिच्यायाः क्वसाप्रवाणां प्रवाणवेदित्यं स्वाच्यात्रा

भाभाषृत्र — गुलोपसंकारातृतसंकारत्वला विद्योक्तल-गानालांचिका स्नला: इदानों विद्यानः प्रकाशंधः, उत विद्याक्तकात् कार्मकाः दिति जिल्लाते । किं पृक्षम् विद्यानः प्रकाशंध दिति भगवान् वाद-गयको मन्त्रते: कृतः प्रकात् वृद्यते स्त्रीयनिषदः प्रकारिकाते प्रकाशंक्रवन्—

<sup>&</sup>quot;त्रद्वाविदाप्नोति परम्" (तैक्ति. च्यान . १ च्यनु . )

<sup>&</sup>quot; वेदाइमेतसं एवमं भद्यानामादिखवर्थे तमसः परसात्। " तमेवं विदानस्त इह भवति। नानाः प्रसा विद्यतेऽस्वास् "॥

यथा नद्याः ख्रान्दमानाः ससुने व्यक्षं ग्रन्थान्तः नामक्ये विष्ठायः। तथा विद्यान् नामक्याद्विष्ठकः परात्परं सुवयसुवैति दिव्यम्॥ (सुद्धः . १।२।०) इत्यादिः॥ ३॥४॥१

# व्याचारदर्शनात्। ३॥ ४॥ ३॥.

प्रक्षण्यः— 'भगको क वैदेको बज्जदालायेन 'यक्षेत्रेजे' यक्षमायो वै अगवन्तोऽक्षमस्मि ' इत्येमादिनि मद्यादिदामधि व्यन्तपदेशु वाक्षेत्र क्रकेन सम्मत्यप्रवाणि भवन्ति, तथोदालकादीनामधि प्रचातुष्रासकादिद्यांगात् ग्राक्ष्यसम्मत्योऽवगस्यते । वेवलात् चेत् चानात् प्रवार्थसिद्धः स्यात् सिमर्थमनेकायासनमस्मितानि कम्माति ते कुर्युः, वर्के चेन्मपृदिन्देम किमर्थमनेकायासनमस्मितानि कम्माति ते कुर्युः, वर्के चेन्मपृदिन्देम

रामानुनः— ज्ञक्कांवदां प्राधान्त्रेन ककी क्षेत्राचाने दृष्ट्यते — व्यवधारः केकवाः किल व्याक्षांविक्तमनादिक्षानायोगतान् ताल्योन् प्रवाच — "यक्षमात्रो क्वे भगवन्तोऽक्सिका" (क्वान्दो. ५) १। ६) इति तथा अनकादयो ज्ञक्कांवद्यस्तराः क्रमेनिस्तः स्प्रतिय दृष्ट्यन्ते।

"ककीती कि संसिद्धिसाखियता जनकादयः" (सीता. ६।२०.)
"हयाज सीडीय सुबद्धन् यक्षान् चानव्याप्त्रयः"। (विद्या. इ. ६। ६।२०) हति। चती कद्धाविषां ककीयधानत्वदर्यानाः विद्यायाः कर्षु-व्यवप्यवेतकस्यवित कक्षान्तिकतिति न विद्यातः प्रवधार्थः। १। १।१।१।

# तुल्यंतुदर्भनम्। १॥ १॥ ६॥

श्रारः — बदुल्लमाषारदर्शनात् कर्णश्रीभो विश्वतेतात्र हुमः, तुख्य-माषारदर्शनमक्त्रमेथेसलेऽधि विद्यायाः। तथाचि मृतिभंति 'यतहू स्म वै तिव्हांस श्राज्यकृषयः कारवेयाः विमर्थाः वयमध्येश्यामचे किमर्था वयं प्रश्नामचे एतहू स्म वे तत्पृत्वे विहांगेऽधिष्यो न जुषवाण्याकिरे एतं वै तमालां विहिला हास्त्रायाः प्रत्येवयायाः कोषेवयायाया स्वायायाः सम्बाच्यं वर्षाने 'हलेवं मातोच्या। याष्ट्रवक्यादोगामधि मद्मविदा-मक्ष्मित्रस्त्र वृद्यते 'एतावरे खण्यस्तलस्ति वोक्षा पाण्यवक्याः प्रवत्नान' इत्तेवसादिमृतिभाः। व्यपि प 'बच्चमात्रो च ते भगवन्तोऽच-सम्बर्गे इत्तेतज्ञिद्रपर्यं वैद्धानदिव्यादिवयं सस्प्रदति च घोषाधिवायो प्रचाविद्यायो कस्मेलाचित्रदर्यं न त्यत्रापि कम्मोद्रत्यस्ति प्रकर-बाद्यभावात्। यत् प्रवस्तं तम्प्रते' इत्त्यत्र तुमः।

रासातुमः — यद्कां त्रकाविदां क्रकीत्रात्रधानाद् विद्या क्रकीत्रस् इति; तक्ष; विद्याया व्यवक्रकेशिय तुस्त्यं दर्धनम्, त्रकाविदां क्रकीत्रस् स्नावद्यांनम् व्यवेकात्मिकम् स्वयंः व्यवुक्तानस्त्रापि दर्धनात्। वृक्कते क्रि त्रव्यविदां क्रकीत्राताः "व्यवपः काववेदाः विकायी वयसधीव्यासके, क्रित्रयां वयं वव्यासके" स्वादी। व्यतो त्रक्काविदां क्रकीत्रात्रदर्धनात् न विद्या क्रकीत्रस्त्रम् ।

कप्रसिदं उपपयते ब्रष्कादिशं कक्षाद्यकानमृत्यकानष् । कलाभि-त्रसिद्धाष्ट्रतस्य यणादिकक्षेत्रो ब्रष्कादियाण्टलात् तथाविषस्य कक्षेत्रोऽउदानदर्धनसुप्रपयते । वर्ष्कातं च "सन्त्रनिष्ठा च प्रधादि-कृतेरश्वत्" (ब्रष्ठासः १, ६) १९६) इति । कलाचेस्र तस्यैव पणादेः कक्षेत्रो सोज्ञेकसमृत्यक्षादियांत्रिरोधियात् तस्यानुद्धानदर्भनस्यप्रस्य । विद्यावाः कमेलुले कक्षेत्रसाः क्ष्मति नोषयपते । १९॥९ १८॥

# व्यन्तराचापितुतहरूः । ३ । ३ । ३ (।

ग्रह्मरः—विवृदादीनां स्वादिकस्पर्यक्षतानावास्त्रास्त्रसम्बन्धार्वविक् चौनानां व्यवस्थानविक्षां कि विद्यायास्त्रिकारोऽक्ति विद्या नाव्यौति संगवे नाव्यौति तादत् प्राप्तं व्यास्त्रकस्मेवां विद्याचेतुत्ववाद्यास्त्रवात् व्यास्त्रकस्मात्रस्थानवित्याम् इत्येतं प्रति इत्यास्त्रक्षस्य व्याद्य तृ, व्यास्त्रस्थानस्यात्रे वर्षमानोऽधि विद्यायास्त्रिक्षस्त्रकृतुत्रक्षः । तह्ये, देश्वयायक्षतीस्थतीनामेवस्थृतामार्थाव प्रवृद्धानकस्त्रक्षा

रामानुग--चतुर्वामाण्यस्यां नद्मविद्यायामधिकारोऽस्तिः; विद्यासञ्चकारित व्याक्षमधर्यमा इति चौक्षम्। वे प्रवराज्यसाननगरा-वर्षन्ते विद्यवर्षाः, तेषाम् अद्यविद्यायामधिकारोऽस्तिः, व दार् इति विषये चात्रसधर्मेतिकत्तैवताकतात् विद्यायाः, चनामसिकां चात्रसध्कासावात नासवधिकारः.— इति प्राप्त उच्चते—

## ( सिद्धान्तः 🗕 )

"बन्तरा चापि तु" इति। तु ग्रन्थः पञ्चबारुव्यक्षेः; व-ग्रन्थोऽव-धारते। बन्तरा वर्तमावानाम् बनाममित्रामपि विद्यापामधिकारोऽ-क्वेतः। कुतः? तहुरु:— वृद्धते चि रैक्क-भीवत्र-चन्त्रभौदीनामनावसित्रा-सपि मञ्चित्रधानिकत्वम्। न चान्त्रमधर्मेरैद विद्यानुराष्ट्र इति ग्रन्थं वक्क्षम्, "बचेन दानेन तस्यानाग्राकेन" (दण्डरा-६। श-२२) इति रानादीनामान्रसेत् वनेनामित्रानामध्यद्धाण्यक्षवद्धानान्। यत्र क्रवेरेतःस विद्यानिकत्वदर्धनादिष्यनिर्देतिरक्किरैन विद्यानुराष्ट्रधान्। क्रवेरेतःस विद्यानिकत्वदर्धनादिष्यनिरक्किरकेनियान्। दानदेवताराधानादिमिर्विद्यानुराष्ट्रधान्य धानमानिवतीन्वेषीपवाच-रानदेवताराधानादिमिर्विद्यानुराष्ट्रधान्यकेनिक्कित्रस्य । १। १। १ १ १

# व्यपि च सार्थते। १।८।१०।

प्रक्रुरः — संवर्षप्रस्तीनाच जपन्यांदियोगारनपेत्रितासमक्केया-मधि सद्यायोगिलं स्मर्थते इतिदासे। नतु जिङ्गांतरं श्रृतिस्त्रति-दर्षानस्यक्षकं कातु स्रज प्राप्तिदिति साभिषीयते।

रामानुजः--विव च, वनाश्रमिवामवि ववादिभिरेव विद्यानु-यदः स्वयते:--

"नद्येनायि च संसिधीद् हास्त्रुवी नाच संद्ययः। कुर्व्यादन्तद्व ना कुर्व्यान्त्रेणी हास्त्रुव उत्पते"।( महु .२। ८०) इति । संसिधीन्—नपासनुग्रुक्त्वाना निवास सिद्धी भवतीत्वर्षः । ३।०। ३०

# विश्वातुसक्य । २ । ४ । २ ८ ।

सङ्घरः,—तेवासिः विषुवादौनासिवद्धैः धृदवसाणवासिनि-र्णयोपावासदेवताराधनादिभिर्धर्मविष्ठेपैरसुराषो विद्यापाः सन्सवति । तथा च स्कृतिः,—

> कप्येनेव तु संसिध्येद्वासायो नाज संग्रयः। कुर्यादस्यत्र वा कुर्याचीजो नासाय उच्यते।

इस्रसम्भवादात्रमसम्भवोऽपि वपेऽधिकारं दर्धपति । वन्यान्त-राज्ञदितरिषि वात्रमकमैभिः सम्भवस्थेव विद्याया वातुस्रदः।

तथा च स्मृतिः,—

'व्यनेक जन्मसंसिद्धक्ततो याति पराकृति'।

इति नन्मान्तरसञ्चितानिय संख्यारिविश्वेषानुग्रस्थौतून् विद्याया रथीयति । वृद्धार्थां च विद्या प्रतिवेधमानमानेकाव्यर्थिनमधिकरोति अवकारित्, तक्साविध्वारीनामध्याकारो न विक्ष्यति ।

रामानुजः,—

न केवलं नाय-स्वातिभाग्रयम् ग्रीयः।

स्वते च चनास्रमानग्रीधंकैविशेषेकिंदानुग्रकः—"तपसा त्रका-चर्येक अद्या विद्यवास्तानमन्त्रिकोत् (प्रसो.१।१०) इति । ।।।।।।

## कृतस्त्रभावात्त ग्रहिकोषसंद्रार् ।

घड्डरः.—तु-प्रान्दो विद्येषकार्षः, क्रान्त्यभावोऽत्यः विद्याक्षते, वज्रनायातानि हि वज्रन्यात्रभवन्यांनि वचारीनि तं प्रति कर्त्तेष्य-तवीपरिस्तानि व्यात्रभानगरकमार्था च प्रयासम्भवनांच्येनीन्त्रवसंयमा-रीनि तत्यापि विद्यन्ते, तत्सात् स्टबनेषिमोयसंच्याने विद्यास्त्रेते ।

रामातुकः,—नु-शब्दचीषं चावर्त्तवतिः, क्रस्तुभावात् क्रत्येबन् भावात् क्रत्यंच्यात्रभेतृ विद्यादाः सद्भावात् स्टब्बिशेऽध्यक्तीति तेवीय-गंदारः, तक्कात् सर्वात्रमधन्त्रप्रदर्शवार्षे स्टब्किशेयतंत्रास्

त्यैतिस्त्राचि वाश्चे "प्राच्याः प्रचेषवायाच वित्तेषवायाच लोके-बवायाच कृद्धायाच भिन्ताच्ये पर्रात" (दण्डा.१५।५।१) इति पारिताव्यैकाल् पर्मा प्रावपाच "क्याद्वाच्याः पास्त्रकं निर्मिच" स्वादिना पारिताव्यक्तीस्तातिष्ठेतुक मीतव्यत्रेयस्कारिविधानं भर्षावार्थमाणः APPENDIX II

Mahabharata-12/5348-3/16069

Hariyamsa—15857.

Panchatantra-33 5-116/18, 22-117/1.

#### The Vedic Divisions

By M. M. CHATTERJI

Let a short summary of the harmony between reason and faith, established by Brahman theology serve as an introduction. The existence of scriptural words which are not meaning-less sounds but are self-consistent and indicative of an entity imperceptible by the senses and inconceivable by the mind, must by rational compulsion be taken as designation of what is super-rational and not irrational. The Brahmanic exceptical rule of correct interpretation of scriptural teachings in a somewhat amplified form will be found in Appendix I.

Such words as received by individuals in untraceable antiquity are known as the Vedas. They were collected and arranged in four divisions by Vyasa, under divine commission issued to him-when he was called into being not born, and named, Apantaratama, literally meaning "Removed from darkness" 1 Apantaratama, under the name of Vvasa, was the arranger of the Vedas but he was not any of the seers of the truth expressed in Vedic word. These Rishis-literally seers may be called Revealers. The Revealers of spiritual truth are recognised in every religion accepting scriptures. In the Sankhya system they are classified in a plain, rational form. intelligible to the ordinary mind. Revealers are, in this system, divided into three classes, namely, "Prakrita" or "Svavavika," "Sansiddhika," and "Vaikarika." Their general designation is "Sidha" or perfect. The perfection of "Svavavika or Prakrita." Sidhas is inherent and not acquired. At no point of time they are not perfect, their perfection is without beginning or end. So far as the individual is concerned the "Sansidhika" Sidhas were once imperfect but acquired perfection in the remote past. They work from no self-centered motive but out of compassion for the sufferings of the imperfect. While the origin of perfection of Vaikarikas is traceable in time and to their preceptors. All these classes of the perfect are included in Prakriti, the totality of powers, attributes, and forms

But Prakriti and Purusha or pure sentience are one in being per se. This is known as Kaivalya or onliness. There can scarcely be any doubt that with changed terminology this classification was adouted by the Mahayana form of Buddhism.

<sup>1</sup> Appendix 11.

Adi<sup>1</sup> or original Buddhas are Svavavika Sidhas, Dhyani Buddhas are Sansidhas, and the Vaikarika Sidhas are Manushi Buddhas

The history of human thought makes it clear that every object considered abstract or manimate at a later period. was regarded at an earlier period as scattent being. This practice now survives as poetical expression. The process is reversed when a spiritual idea originates in the intellectual form which is universal. Divine aspects can, obviously, be expressed only in an intellectual form. But in course of time and for general apprehension each aspect is taken as a person Following this rule the category technically known as Mahattattva, the highest form of specialised existence in the Sankhya system, and declared as over-shadowed by Purusha or sentience is the same as Brahma the archangel of creation. According to the Svetaswatara 2 Upanishat "the Supreme Bong calls him into existence and transmits into him all the Vedas. And Brahma is the ultimate source of revelation. The knowledge derived from Brahma is taken to have been declared by Sanaka, Sananda, Sonatan, and Sanat Kumar, the four eternally youthful sages described as sons of Brahma's mind. They are Prakritika or Swayayika Sidhas, while Kapila and Suka, who acquired perfection within definite time as result of devotion, are to be taken as Sansıdlırka Sidhas Vasista, the paragon of non-resistance, is classifiable as Sansidhika Sidha or perfected individual He and his great grandson Vyasa, owing to their respective peculiarities, are termed Adhikarika Purushas They are called Adhikarika Purushas in the Brahma Sutram and described as respectively charged with divine mission for the benefit of creatures

The Brahmanic doctrue directed to faith in the eternal, all powerful all-wase layars, the Creator Sustainer, and Alsorber of all reduces the importance of the Svavavaka Sidhas for practical purposes of devotion. But the two doctrines, Verla and Sankhyan, are no ways in conflict. For He who can create perfectible beings can equally well create those that are perfect when projected into individual existence.

Apantaratama deserves special consideration for the present purpose. The Mahabharata <sup>3</sup> relates how Apantaratama appeared under the name Vyasa to arrange the Vedas and how

<sup>े</sup> चादि वृद्धाः प्रक्रत्यैव मर्व्यं प्रकाः सुनिधिताः ।

Adi Buddhas, the perfect certainty of all righteousness are Prakrits even. This identity is traced by Gaudipadi in Mandakya Karika.

<sup>&</sup>lt;sup>2</sup> यो प्राच्छण विद्धाति पूर्व्य वंदांच मर्व्यान् प्रचिमति सर्वीः।

Svetaswetara Upanishat,

3 Mahabharata, Shanti Parva, Mokshadharma Parbadhya, A. 350.

he executed his commission and continued his individual existence on earth Apantaratame's name in his earthly life was Vyas. According to the Vedantic School of Sankaracharya the preceptorship of Vyas in his life time descended on his son Suks. These considerations are explanatory of the theological position of Puranas and the Mahabharata as subordinate to the Vedas of which the authorship is attributed to Vyasa

The Vedas are accepted as the store-house, supplying when properly understood the means for the attainment of temporal and spiritual well-being of mankind, irrespective of external condition

According to the Mahabharata time came when the Vedas needed arrangement in parts calculated to apply to different stages of the social growth of the human race and for this purpose special divine inter-position was necessary

The principle underlying the division of the Vedas into

four classes is strikingly interesting.

In the most primitive condition of humanity every undividual man has constantly to fight for food and wife at the risk of life and limb. In that stage of social life magical rites compelling self-surrender on the part of a woman or paralysing an enemy from a distance and other means of self-gratification accompanied by some self-security would be invaluable, and the master magician would be the king and the subjects and trhesmen prosperous in life. This is the underlying unity of the Atharva Veda. With the growth of social stability and extension the practice of magic for midvidual benefit will be prohibited as destructive of orderly, social existence and will be allowed only as between heads of states, king and king.

Rites adopted to this end, as declared in Vedic mantras, are collected in the division of the Vedas called the Yajurveda Further progress of peace and orderliness generates the

inquiry relating to the agency that can create a rite which when duly performed secures the desired result. Obviously, the agency is of much greater value than all the rites collectively. The result does not benefit the agent but the performer of the rite. The number of rites performed does not exhaust the power of the agent unmoved by fear in fulfilling the performer's desure. The value of the agent, when realised, is love in theological language. This is the characteristic of the Vedic division, the Samaveda.

Continued social advancement generates the intellectual search for the nature of the Agent as to what and how He is. The search made in faith declares the Divine Being as apprehensible and not comprehensible This is the distinguishing mark of the Riveda.

It is clear that the principle of division relates to general conditions and not to individual self. There can be nothing to prevent the presence of the four types among contemporaries Superficial observation can trace the presence of gratification in eligions accepting serptures corresponding to the principle of the Vedic classified arrangement of Vysss. The ten great (cnabs) [panishats are connected as appendices with all to four Vedas, showing the independence of spiritual life. It is unaffected by all external conditions of existence. The door of spirituality is open to all trespective of race, nationality, sex and postton, social and intellectual.

The history of previous attempts to trace in time the origin of Vedic mantras and the great Upanishats must discourage all attempts in that direction.

#### APPENDIX I

Savara Swam, the exception of Vedic Ritualism, technically called Dura Minanas, gives a very close exposition of the rational basis of Scriptural teaching which is obviously super-rational. His exposition is considered to the control legic and psychology, one way for general grasp-macrosable. The normal sources of right knowledge are seese perception is confined to sound, touch, vashle form, taste, and small responding to ear, skin, touch touch, vashle form, taste, and small responding to ear, skin, or industries. Induction leads only to probability and not to certainty which, dong this line, can only be attained by omnascence, unclaimed by all users of the industries method of soughting knowledge. In deluctive logic the major presume must be more extensive than the conclusion of any process of deductive reasoning. And ys the Scriptures isolate that the ultimate Reality—the Being ger as a sone of the objects of the senses or there aggregate. No can that Reality or Being be spoken of the senses or there aggregate. No can that Reality or Being be spoken these teaches and the stated of the sense of the objects where the sense of the substance of Scriptural teaching indicated can be stated the stated where the stated of the stated o

God can be apprehended and not comprehended. That God is and be conceived but what and how He is, in inconceivable. This truth is second by fasth and not by knowledge with the full assent of reason that the contract that if the words, giving birsh to fasth, did not indicate mind the contract of the co

In these observations \* relating to Brahmanu faith an attempt has been made to avoid all theological technicalities, not necessary as a duclaimer of originality of the present effort. They are intended to serve as preparatory to the consideration of the present-ally conflict between Science and Religiou. The apparently rational basis of the conflict will disappear on consideration of the respective spheres of Science and Religious—Science lies within the sphere of sense and logic guahed from irrational. Reason, though not he generator of Religion, cannot be discordant with it. The relation with sense is similar.

To descend to particulars. The main conflict is between narratives of creation, contained in some writings, regarded as hely, and the scientific doctrine of organic evolution.

In the most authoritative scriptures of Brahmanism different descriptions are given of creation. For instance, compare Chëndogyopanishad (JII, 19) and Attareyopanushad (IV) Sankara in his commentary on the text, last referred to, clearly states:

### " निष खरा। व्यायादिपरिकानात वर्ष विविदियते।"

(No benefit can, in truth, be expected from knowledge of narratives of creation and others of that kind.)

The only object of such narratives seems to be to teach the value of super-temporal peace against unresting change and the contingent character of all our existence.

Some Brahmanic scriptures give the fostal instory of the human individual which is practically identical with what Haeokel calls the doctrine of recapitulistion. One wonders how Science will explain the existence of types Special of wagging matter, called protoplasm, which Science cannot distinguish from one another, develop very differently—one into a vegetale, another more another, develop very differently—one into a vegetale, another more another, develop very differently—and then search for explanation of the difference in typical development, estimating the chances of success in the search.

Then comes the question of speech, the vehicle of Revelation At the outset one as met with the distinction between sound fin Sanskrit Dheons) and word (in Sanskrit Sabda). The sound of a loud explosion strates, rightsons, and may result in the hearer's running away. But it means the same strates are supported by the same strategy of the same s

In an authoritative Sanakrit treatuse on the subject, though not of the highest sprittual value, the geness of Word is traced through four stages. A ray of thought impinges on the individual consenousness from a source to that consciousness unknown. This immediately generates the impulse to find for it an expression in word which, when found, excites the effort for its utterance with which the cycle is supermon, in the next stage it as named "paryant" or watching (itserally, the seeing cool. In the stage is immediately following it is "undlysanh".

or the middle one, when the word, though unuttered, is known to the would-be utterer and when uttered it is "vaikhari" or the sharp one.

would be uttered and when uttered it is "vaikhari" or the snarp one.
In the universal aspect word is known as the Word-God (Sabda
Brahma) Lakshmanacharya of Kanauj in his "Sarada tilak" sums

up the Tantric teaching on the subject.

The first in thought, but not in time, is Nisla (Iterally, sound) in the counceton unondationed consecounses—articalizeft series (Iterally, the sound apart sounds of itself). Thence is determination or the teterminate bounds of itself). Thence is determination or the tetermination production and inflution. Consecounses, or sevence, this resewd, is Sabids Brahma or Word-God. He says: "It is my omvetten that Sabids Brahma is the consecounses of all individuals—series described by the sabids of the sabid

The enquirer may be usefully referred to the opening chapter of the Gospel of St. John

The above summary may be guilty of prolixity. But some reference to the subject seems necessary for an examination of the relation of

speech to organic evolution The subject for consideration is the absence in the animal world of word, as distinct from sound. In brief, words have a meaning in dependent of the sound, as is evidenced by the existence of synonymis m the same language, apart from figurative expressions. In the annual world are found back, grunt, twitter, chirp, and other forms of acoustic expressions. They are useful in maintaining individual and associated life Impulses of tear and other preservative and associative instincts are expressible by the amount call. The sphere of word is far more comprehensive Word can express the ideas of cause and effect, substance and form, curtainty, contingency, and so torth. A short may be helpful in avoiding danger to life and limb but can it independently of word, express the emotion of lear, apart from its bodily effect? This peculiarity of word is called "sphota" by the school of Panin. Take for example, the word " qo ' (MI) meaning cow On its utterance images of cows, different in colour and form, present themselves to different heaters. Sphola is the potency of a word to evoke in individuals thought mages of different forms but all belonging to the ame class. Santain accepts the existence of "sphota" but rejects its eternal character as manutamed by the Panini school 1

Thus viewed, word appears to be statement. Will it be unpardonable to invite the attention of Science to the peculiar characteristic of word. In conclusion, Religion may well say to Science... Now let us stude hand, and part, each to his business.

#### MORINI MOHAN CHATTERJI

I Sankara's commentary on the "Brahma Sutra". Thibant's translation (S B E , Vol. 1, pp. 204-209)

### APPENDIX II Brahma Sutram

### III Adhyaya, 3 Pada, Sloka 32 यावद्शिकारसर्वक्षितिराधिकारिकायाम् ॥

विद्यो वर्तमानदेश्वपाताननार देशान्तरसुन्पदाते न वेति विन्छते। नन् विद्यायाः साधनभूनायाः सम्पत्ती केवन्त्रनिष्टतिः स्त्राञ्च वेति नेय चिन्तीपपदाते । न चि पाकसाधनसम्पत्तावोदनो भवेत् न वेति चिन्ता सक्षवति । नापि भुद्धानस्त्येत् न वेति विनयते। अपप्रका लिय चिना। प्रश्नाविदासपि केषाश्चिदितिष्ठासप्राणयोदेशाना-रीत्पत्तिदर्शनात्। तथा भ्रापानारसमा नाम वेदाचाय्येः पुरावर्षिर्विकानिगीयात कलिद्वापरयो सन्ती कव्याद्वेपायनः सम्बभूवति सारणस् । वसिस्रथ प्रश्राणो सामसः प्रसः सहितिकापादमतपर्यदेश पुनर्वशादेकात विचावकवाश्चा सम्बन्धेतत । सम्बद्धीना-सपि प्रश्राव रूव सःवसानां प्रश्नावां वार्व्य यश्चे प्रनद्वपत्तिः स्वर्थ्यते । सनतक्तसारी-्रीप बच्चण एवं साजनः पत्तः स्वयं बद्रायं वरप्रदानातं स्कन्द तेन प्रादर्वस्व । स्वनेव दश्वनारदप्रश्रतिनामपि भूवमा त्रहानारात्पत्तिकथा तेन तेन निमित्तन भवति स्नती। जनाविक सम्बार्धनाडयोः प्रायेनोपलाद्यते । ते च केचित प्रतिते प्रवेडचे देखामार-माददते केलिश स्थित एव तस्मिन योगैसर्थ्यवणादनकदसादानन्यायम । सन्ते सेते मनविश्वतनक नददायों सार्धन । तरेतेवां देवान रातपत्तिदर्शनात प्राप्त त्रवाविद्यायाः पालिक साम्नकेत्त्वसकेत्वं वेत्यत उत्तरमुख्यते। न। तेवामपान्तरतमप्रस्तानां वद्प्रवर्गनादिय जोकस्थिति हेतुम्बधिकारेयु नियुक्तानामधिकारतन्त्रत्वात् स्थिते । यदामी भगवान मविता सञ्चलवापर्यामा जगतोऽधिकार चरिता सदवसाने तूद्यासमयविकात केवन्यमनुभवति ' चय तत कर्य खरेत्य नैनोटेशा नासमेतिकस स्व मध्यं महाता' इति युते। यथा च वर्णमाना श्रम्भविदः प्रारम्थमोगच्यं कैवन्यमञ्-भवन्तिः "तस्य तावदेव चिर यावत म विमोर्च्याय सम्यतस्यं" इति त्रतेः। रवसप्रान्तरतसःप्रश्वतयोऽपीकराः परमक्षरेव तेव तेव्यधिकारेव नियक्ताः सनाः सत्यपि मक्रान्द्रकंत्रे केवन्त्रकेतावचीयकमाणि यावदधिकारभवतिवर्णसदवसाने चापष्टकाने इत्यविष्डम् । चक्रतप्रश्चमेव दि ते अस्तीश्यमधिकार्यकादान।याऽभिवादयनाः स्थानम्बाण ग्रहादिव ग्रहासरसम्बसम्य देव सवरमाः स्थाधिकारनिर्वित्तनायः परि-सुवितकासय स्व इंडेन्द्रियप्रकृतिविक्तितातु निकायि देखानु युगपतु असेव वाऽधि-तिष्ठनितः। न चैते जातिभारा इत्युच्यते । ते स्व ते, इति खुतिप्रसिद्धः । यद्यासुस्राभा त्रवागदिनौ जनकेन विवदित्कामायदस्य स्वं देखं जानकं देखमाविका यदा तेन पश्चानं स्थमाविवेश इति सार्यते। यदि साम्युक्तं सक्तन्त्रष्टने प्रारम्थविपानं कर्माण कमा नारभपारव्यविषाकं देशानरारक्षकार्यभाविभवेत् मतोऽन्यद्य्यद्ग्धवीजं कर्या-नार सद्भव प्रस्केतित प्रस्तिविद्यायाः पासिक सीखडेनुलसडेनुलय या प्रद्यांत। न लियमाम्हा युक्ताः श्रामात् कर्यमीजदावस्य अतिस्तृतिप्रसिदलात्। तथा वि त्रतिः—

<sup>&#</sup>x27;भिदाते चृद्यपन्धिन्द्यमे सर्वसंत्रयाः। कोवने चास्र कर्वन्दि तस्त्रिन् दष्टं परावरे'। इति---

चैवशायाः। म चारियास्त्रिकेमदारे यति क्षेमरीकास कर्यामयस्त्रिकेमदार रवन्द्रेमरीयचेनुवर्याते। म स्वाधित्यस्य आविनीकासिन्देमराचे इक्षते। रवन्द्रेमरीयचेन्द्रयाते। म स्वाधित्यस्य आविनीकासिन्द्रयात् रिक्तः। स्व मरीरायात्मेककरवान्। म्वाधुत्रयाः भावदिकारणाधिकारिकारणाधिकाः। म च भावपक्षामेकालिकाः। मधाच पृतिरिक्तेषेत्रे वर्ष्यां भावपाधिकार्यः। 'सद्वा देशाने अवस्थिते म स्व मदस्यमावर्षीते मधा मनुष्पाचार्यः (ति। भावणास्य वेद्यासीदिक्षेत्रामस्यः सुर्वेषययाः)

> 'त्रह्मणा सक्त ते सर्व्यं मन्त्राप्ते प्रतिसक्तरे। परस्थाने कताकानः प्रविक्तिन परं पद्धः ॥ इति स्वर्षातः।

Brahma Sutram.

III Adhyaya, 3 Puda, Sloka 32.

"Of those who have a certain office there is subsistence (of the body) as long as the office lasts".

The question here as whether for him who has reached true knowledge a new body organisate safe for has parted with the old one or not.—But an objection is here reased at the outset there is really no not.—But an objection is here reased at the outset there is really no houge about its developed when reaching its parfaction brings about its own that there is room for an inquiry whether there is cooked rive or not, after the process of cooking has all bodies or not; not any more than there is room for an inquiry whether there are cooked rive or not, after the process of cooking has been appeared by casing or not.—Notion; or, for an inquiry whether a man is satisfied by casing or not.—Notion; or, for an inquiry whether a man is satisfied by casing or not.—Notion; or, for an inquiry whether a not know that a state of the not of the notion of the no

Rudra, born agan as Skanda. And there are smiller fales about Daksha, Närada and others having, for various reasons, assumed new bodies Skones of the same kind are met with in the mantras and artheredaes of Suritu Of some of the persons mantituoud in said that they assumed a new body after the old body had perioded; in the said that they assumed a new body after the old body had perioded; new bodies while the old body remained intested all the while. And of them are known to have completely mastered the contents of the Voties.

On the ground of all this the purvapakshin maintains that the knowledge of Brahman may, indifferently, either be or not be the cause of final rolesse

This we deny, for the reason that the continuance of the bodily existence of Apantaratamas and others-who are entrusted with offices conducive to the subsistence of the worlds, such as the promulgation of the Vedas and the like-depends on those their offices As Savitrar (the sun), who after having for thousands of yugas performed the office of watching over these worlds at the end of that period enjoys the condition of release in which he neither rises nor sets, according to Kh Up III. II. I. 'When from theuce he has risen upwards, he neither rises nor He is alone standing in the centre, and as the present knowers of Brahman reach the state of isolation after the enjoyment of those results of action, which have begun to operate has come to an end, according to Kh Up VI, 14. 2 'For him there is only delay so long as he is not delivered from the body, 'so Aparantamas and other Lords to whom the highest Lord has entrusted offices, last -although they possess complete knowledge, the cause of release- as long as their office lasts, their works not yet being exhausted, and obtain release only when their office comes to an end. For gradually exhausting the aggregate of works the consequences of which have once begun, so as to enable them to discharge their offices; passing according to their free will from one body into another as if from one house into another, in order to accomplish the duties of their offices; preserving all the time the memory of their identity, they create for themselves through their power over the material of the body and the sense organs new bodies, and occupy them either all at once of in succession. Nor can it be said that when passing into new bodies they remember only the fact of their former existence (not their individuality); for it is known that they preserve the sense of then individuality. Smriti tells us, s.g. that Sulabha, a woman conversant with Brahman, wishing to dispute with Ganaka, left her own body, entered into that of Ganaka, carried on a discussion with him, and again returned into her own body. If m addition to the works the consequences of which are already in operation, other works manifested themselves, constituting the cause of further embodiments, the result would be that in the same way further works also, whose potentiality would in that case not be destroyed, would take place, and then it might be suspected that the knowledge of Brahman may, indifferently, either be or not be the cause of final release But such a suspicion-is madmissible amen it is known from Sruti and Smriti that knowledge completely destroys the potentiality of action. For Sruti says, 'The fetter of the heart is broken, all doubts are solved, all his works perish when He has been beheld who is high and low ' (Mu. Up. II, 2, 8); and, 'When the memory remains firm, then all the ties are loosened '(Kh. Up. VII, 26, 2) And Smrits similarly says, 'As a fire well kindled, O Arguna, reduces fuel to ashes, so the fire of knowledge reduces all actions to ashes; and, 'As seeds burned by fire do not sprout again, so the Self is not again touched by the afflictions which knowledge has burned'. Nor is it possible that when the afflictions such as ignorance and the like are burned, the aggregate of works which is the seed of affliction should be partly burned, but partly keep the power of again springing up; not any more than the seed of Sali, when burned, preserves the power of sprouting again with some part. The aggregate of works, however, whose fruits have once bogun to develop themselves comes to rest through effecting a delay which terminates with the death of the body, just as an arrow discharged stops in the end owing to the gradual cessation of its impetus; this in agreement with Kh. Up. V1, 14, 2. 'For him there is only delay, ' &c. We have thus shown that persons to whom an office is entrusted last as long as their office lasts, and that nevertheless there is absolutely only one result of true knowledge-In accordance with this, scripture declares that the result of knowledge on the part of all beings is equally final release, op. 'So whatever Deva was awakened he indeed became that, and the same with Rishis and men' (Bri. Up. 1 4, 10). Moreover it may be the case that (some) great Rishis had attached their minds to other cognitions whose result is lordly power and the like. and that later on only when they became aware of the transitory nature of those results they turned from them and fixed their minds on the highest Self, whereby they obtained final release As Smriti says, when the mahapralaya has arrived and the highest (i.e. Hiranyaga: bha) himself comes to an end, then they all, with well-prepared minds, reach together with Brahman the highest place '- Another reason precluding the suspicion that true knowledge may be destitute of its result is that that result is the object of immediate intuition. In the case of such results of action as the heavenly world and the like which are not present to intuitional knowledge there may be a doubt; but not so in the case of the fruit of true knowledge, with regard to which scripture says, 'The Brahman which is present to intuition, not hidden (Br. Up. III, 4, 1), and which in the passage, 'That art thou,' is referred to as something already accomplished. This latter passage cannot be interpreted to mean, 'Thou wilt be that after thou hast died;' for another Vedic passage declares that the fruit of complete knowledge, viz, union with the universal Self, springs up at the moment when complete knowledge is attained, (The Rishi Vamadova saw and understood it, singing, "I was Mann, I was the sun ".

For all these reasons we maintain that those who possess true knowledge reach in all cases final release

....

#### Was Viśākha Datta a Bengali ?

By JOGENDRA CHANDRA GHOSH

Visakha Datta was the author of the reputed Sanskrit drama Mudraraksasam. He was the son of Maharaja Prithu, the grandson of Vatřávara Datta, a feudatory chief (samanta) Nothing more can be known about him positively from his Professor Bidhubhusan Goswamı considers him to be an inhabitant of the Northern India. He, in the introduction to his edition of the drama, writes . ... " The noet Visākha Datta or Višakha Dēva, as he is called in some editions, was in all probability a native of Northern India; the geographical references in the drama, all except one, point to places situated in Northern India The last verse referring to the Varaha Avatara of Visnu read and interpreted in the light of the fact that temples and remains connected with the Varaba-Avatara are to be frequently met with in Northern India. And the very name of the dramatist and that of his grandfather, the former probably adopted in honour of the god Kartikeva, whose temple in Devagir (Deogoda) was highly famous in earlier times, and the latter perhaps adopted in honour of the phallic image of Siva situated near the Aksayavata (or the imperishable banyan tree) on the confluence of the Ganges and the Jamuna suggest the same conclusion All this, however, is probable hypothesis and stands in need of confirmation

The points gathered from the internal evidence and referred to above, can all be traced to Northern Bengal. Nay, we can add some more. If the above evidence is considered sufficient to call him an inhabitant of Northern India, we think, we have better grounds for claiming him to be a native of Northern Bengal. We shall now show that the temples of Varāha-Avatāra and of god Kārtikēya were in existence in Northern Bengal from very early times. The Vaţēsvara Sīvas is still in existence.

Temple of Varsha-Avatāra—in the coppor-plate grants of the lifth and the sixth centuries A.(!., discovered at Damödarapura of the distruct of Dinajpur in Northern Bengal we find that lands were granted for the erection and the manntenance of the temples of Kokamukha-Nvant and Svöta-varšha-Svámi in Döngágráma in Himavacchikhara (the Himala-yas). The grants were issued from the Koţivarşa adıhkarapa of the Pupdravardhana bhükti, which are situated in Bengal. The find-spot of the grants is also in Bengal. We may,

therefore, conclude that these temples were in Bengal (Ep. Ind, Vol. XV)

Kökāmukha tīrtha or Kokāmukha ksētra, a place of pilgrimage sacred to the Varaha-Avatara, is mentioned in the Mahabhārata (Vana-paryva, chap. 84. and Anusasana-parrya, chap 25), Varāha-Purāna (chaps 113, 122 and 140) and Brahma-Purāna (chaps 219 and 229). It is stated in chapter 122 of the Varaha-Purana that once a Saka prince of Anandapura with his wife a princess of Candrapura, accompanied by merchants, citizens, varsyas and lovely ladies made a pilgrimage to the Kōkāmukha They reached the place after undergoing a fatiguing journey for many days. This Anandapura, we believe is modern Vadanagara, also called Nagara, which was the original home of the Nagara-Brahmanas of Gujrat This shows that the tirtha was well-known throughout India, so that people from distant Guirat came to pay a visit to this place. In chapter 140 have been described the principal places of the tirtha which comprised five youanas. Among the places mentioned are the rivers Kausiki Kökāmukha and the Trisrötā All these riverare in Northern Bengal, answering to the modern names of Kośi, Kankii and the Tista In chapter 219 of the Brahma-Purana we find that the Varaha-Avatara after rescuing the Pitris from the perils of the Raksasas performed staddha in Kökamukha-ksētra, and that the goddess Earth bore to Varaha Avatara a son named Narakāsura, who was given the kingdom of Pragivotisabura or Kamarupa, the modern Assam mg to Kālika-Purāna Narakāsura was brought up by king Janaka of Mithila. All these go to show that Kokamukhaksētra lay within Mithilā and Kāmarūpa, i.e., in North Benga! Kokāmukha-svami, the presiding deity of the Kōkāmukhaksētra, is none other than the Varaha-Avatara. This ksētra ⋈ named after the river Kōkā at the foot of the Himālaya The Varaba-Avatara said ---

> "Köka-nad-tti vikhyata gur-rāja samāsērtā ! Trtha-koti-mahapunya madrūpa-paripālitā | 100 | Asyūm-adya pua rīti vai mvatsyamy-agha-nāsakrīt ! Varaha-darsanam punyam pūjanam bhukti-muktidam [ 2107 s

> > (Brahma-Purana, chap 219)

Kārtakēya Temple—In Rāja-Taranguni, the history of Kasmır, by Kalluna, is stated that King Jayanida (772-806 A.C.) came to Gauda and saw a temple of Kārtikēya in Paundra-vardhana, the capital of the country

" Mandalëşu narëndrānām payödönām-iv-āryyamā i Gauda-rājāśrayam guptam Jayant-ākhyēna bhūbhujā u Pravīvēša kramēn-ātha nagaram Paundra-vardhanam Tasmin saurājva-ramyābnih pritah paura-vibhūtubhih i Lasyam sa-drastum-avisat Kārtikēya-nikētanam i Bharat-ānugamālakṣya nṛitya-git-ādi-sāstravit i (Rāja-Taraūginii 4-419)

The Karatōyā is a very ancient river in North Bengal. Mentions of Karatōyā are found in the Mahabhārata (Vanaparvva, chap 85. Bhbrna-parvva, chap, 9). In 'Karatōyāmahātōnya' (an account of the merits of the river Karatōyā)

we also find mention of a temple of Skanda or Kārtikēya in Paundra-vardhanapura —

\*\* Skand-adı - Vişnu-Balabhadra-Sıv-âdi-dêvair-adhyüşitam kara-jalamvu-yidhüta-papam - Sri-Paundra-vardhana-puram sirasā namāmi + 24 \*\*

Vates are bix a.—There is still a Siva-hinga called Vatēśvara-natha at Colgong in the Bhagalpur district. It is a railway station on the loop line of the East Indian Railway. The place is not far from the border of the Birbhum district in Bengal. The fort of Garin near it was looked upon, says Mr. Blochmann, as the entrance or key, to Bengal—a position which Muhammadan historians compare with that of fort Sahwan on the Indias, the key of Sudh. (J.A.S. B. 1873, p. 322). Bas Saheb Nagentranstha Vasu says that the litiga perpetuates the memory of Vatěsvara Mitra, an Uttara Radhiya Kayastha, who gave his daughter in marriage with the Maharajā Valbāla Sēna and was made the governor of Magadha. But he has not given any reason for his thinking so It is not unikkely that the lifiga has been in existence from a long time past of P.A.S. B. 1908, p. 10)

We have shown that all the reasons given by Professor Gaswani were in existence in Bengal. We shall now add some more to show that it is more probable that Vasakha Datta was a native of Bengal. The names of the three generations riz Vsäkkha. Prithu and Vajášvara sound more hise Bengal mares than those of the people of other provinces of India. We have already mentioned the name, Vatášvara Mitra. We find the name of a Vatášvara Sarná in the Manahali copperplate grant of king Madana-Paladéva of Bengal (J.A.S.B., 1960), p. 72). The name of Prithiu's, perhaps, a contraction of Prithvidhara or of some such name with Prithvi as the profix. The name is not un-common in Bengal.

In mainte is not nicommin in reengal.

Visikha batta's grandfather was a feudatory king Poudareengal form the fifth maintenance of a secondary king Poudagrand form the fifth maintenance of the lambdaragura
proper-plate grants we find the names of Uparita Urata Datta,
Uparita Mahārāja Brahma Datta and Uparita Mahārāja Jaya
Datta, who were all feudatory chiefs of Pundravardhana under
the Guptaa. In the Ghugrahāti copper-plate grants of the sixth
century A.C. mentions have been made of Mahārāja Shhāpu

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Datta and Antaraŭga-uparika Jiva Datta. (J.P.A.N B 1911) Lastly some identify Ganésa Datta-khán, an Uttara-Rádhiva Kayastha of Danjajur in North Bengal with Malistriji Ganésa who becsam: an independent king of Bengal in the beginning the the lifteenth century A t "The maharajas of Dinajpur are said

to be the descendants of this Datta dynasty In some manuscripts of the Mudra-Raksasa, the reading of Avantivarma has been found in the last line of the last sloka in place of Candragupta. Prof. Goswami thinks that this Avantivarma might be the father of Grahavarma, the brotherin-law of Maharaja Harsavardhana. He supposes that this Avantivarma had perhaps the kingdom of the western Magadha under him and was the overlord of Visakha Datta. He perhaps, with a view to please his overlord, put Avantivarina's name in place of Candragupta Professor Goswami assigns the time of the Mudra-Rāksasa to the latter part of the seventh century or the beginning of the eighth century A ( Grahavarma succeeded his father and was killed at about (605 His father Avantivarina can not, therefore, be present towards the end of the seventh century or the first part of the eighth century. We shall, therefore, have to find out some other Avantivarma who was present towards the end of the seventh century or the beginning of the eighth century. Another Avantivarma was the king of Kasmir a great patron of learning but he had no dominions in Northern India or in Bengal Besides he reigned in the latter part of the unith century (855-883 A.C.) Who this Avantivarma might then be ' Although the history is silent about any descendant of Bhaskara Varman of Kamarupa the reference to the Varaha Avatara leads us to think that this Avantivarina might be the immediate descendant of Bhaskara Varman, who claimed his descent from the Varaha Avatara That Bhaskara Varman had his sway over the northern Bengal is evidenced by the fact that he had ussued his Nidhanapur copper-plates grant from his victorious camp at Karna-suvarna in Bengal, (Ep Ind., Vol XII).

count at Karma-suvaria in Bengal, (Ep. Ind., Vol. XII).

In the first act of the Mudra-Raksanse wind that Nipunjaka, the spy of Caṇakya adopted the disguise of a showman of Yamapiata, a seroil depicting the pumishments awarded by Yama, the god of death to the different kinds of sinners. The puriession of rearning money by showing Yamapiata is still puriession of rearning money by showing Yamapiata is still with the puriession of rearning money of the foundation of the different short of the month of Advine last, that the guidance Pavasai of the month of Advine last, that the guidance of the first of the foundation of the still should be adopted the still should be adopted as a sound of the should be adopted the still should be adopted the still should be an additional to the still should be also should be shown the still should be shown that the still should be shown the shown that should be shown the shown the still should be shown that the shown that show that show that show that show that shows the shown that show that shows that show that shows that show that shows that show that show

way they impart secular and religious instructions to the people. An account of the exhibition of 'Yamapata' also can be found in Bana's Hass-carita. (Cowell and Thomas pp. 119 and 136). This shows that the practice of earning money by exhibition of 'Yamapata' was much prevalent in the seventh century i.e., when 'Visikha Datta lived

Until no evidence to the contrary is forthcoming, we hope, we shall not be wrong to claim Viáskha Datta to be a Bengali.

. . . . . . . . . . . . .

### The House of Tughlaq

(From the Tarikh-i-Mubarakshahi)

By K. K. BASU, T. N. J. College, Bhagalpur

ACCOUNT OF SULTAN LA 'AZAM ABU MUZAFFAR SULTAN FIBOZ SHAH, May God bless his sepulchre!

He was the son of Sijekhäär Rajab, the younger brother of Suland (blast dhiswad-din Tughlag Shah. When the Holy and the Grast God. muni-tier of Firez Shah foent in gifts and bestower of sovereignty, conferred kingship upon this Emperor (Firez Shah), of habits augelie and qualities Muhammad-like, gentle, kind and just, every act of oppression, tyramy, highhandedness, violence and excesses that had been manifest in the reign of the deceased Sultan Muhammad Tughlag, was substituted for justice and equity, the adornment and exaltation of the country, and the safety of the roads There was an abundance of learning in the country), and a great many theologians and holy persons appeared (in his reign).

On the 23rd Muharram of the above year (762 H. 1337).

AD, by the (Ffroz Shah) accended the throne
to his court from all sides; the chiefs and the nobles, fully and
wholeheartedly, acknowledged his authority and approved of
his actions.

The Sultan drew up his forces as usual, and having made up his mind to proceed to Delhi on the

The Imperalats were harassed by the Mughals. On that day the Mughals, who had come in (Sultan's) aid, having joined themselves

<sup>1</sup> Afif, Zia Barnı and Nızamuddın write 24th Muharram

with Nauroz Gurgin, fell upon the royalists. A firman was issued ordering that the baggage-train should be carried forward

<sup>&</sup>lt;sup>3</sup> On the demise of Muhammad Tughlaq the army that had been led by him to Thatta fell into tumost disorder, and was assaled by the Mughals in front and the rebels of Thatta in the rear. As there was no one possessing the ability to redeem the soldiers from the hands of the Mughals, the ohier roes of the army entreated Firoz to ascend the throne.

برسم طویل فرود آورد 4 بیعت عام کردند و موافقت نمودند 3 همان روز صفلان که برای صود آمری بودند باشتغال نوروز --MS. readn کدی کر: ۶) صفها کشیر اتفاق جنگ کردند ه

Siwistan

along the river Sindh with forces on both its sides. When the Mughals appeared they were put to distress by the imperialists. and the latter made a further advance. Defeat of the Mughals. Being defeated the Mughals retired to their countries The Sultan by continuous marches arrived at Siwis-

tan and recited the Khutbā 1 in his name on Friday.

It was during this expedition that Malik Ibrahim obtained the office of Naib-1-barbea Malik Mashira 2 Conferment of presents on the memhere of the court at

was invested with the post of 'Ariz (-i-Mulk) and he received the title of Imadu-l Mulk From that place was sent Kamru-d-din, the Secretary of late

Maliku-sh Shark Malik Kabir, to Guzarat, the country of Bahram Ghaznin. Malik Noor. the Sar-dawat dar. Malik Nua. Sheikh Hasan Sarbarhanah and other Maliks who remained there were rewarded with special robe of honour and excessive favours Said 'Alauddin Rasuldar and Malik Saifuddin, the Superintendent of the elephants were sent against Khwaja Jehan at Delhi. Moulana 'Imad and Mahk 'Ali Chori were deputed against Taghi, the chief of Smdh and Thatta. Other officers marched against Khudawand Zāda Kawamu-d-dīn and 'Ainu-l Mulk at Multan; and some against Malik Mahmud Beg at Sannam, and some to other districts and towns A general firman was issued to the various parts of the Kingdom granting compassion, favour and education to the subjects The Coffin of Sultan Muhammad was placed on an elephant with the royal umbrella over it. and taken to Delhi with successive marches.

Khwara Jahan sata up the son of the late Sultan Muhammad Shah, 3 Safar 752 H

In order to convey the news relating to the demise of Sultan Muhammad, Malih, a slave of Khwaja Jahan, set out (from Thatta?) on the third day, and reaching the city (Delhi) carried the intelligence to his master 5 Struck with wonder, and without careful investiga-

Nixamuddin gives a more detailed account in his Tabaqat-i-Akbari He relates that after the death of Muh Tughlaq when confusion overtook the army, Malik Firoz considered it advisable that he should \* \* separate the 3,000 Mughal horsemen, whom Amir Kazghan had sent to assist Sultan Muhammad, from the man army, so that it might be saved from their depredations. \* \* \* Two days after Sultan Muhammad's death Nauroz Gurgan, the son-m-law of Barmah Shirin, who had been brought up by Sultan Muhammad, ungratefully joined the Mughais, and incited the latter to stretch their hands to ravage \* \* \*.

<sup>1</sup> Khuba or Khutba, the two synonymous terms refer to the oration delivered every Friday after the afternoon service, in the principal Mahommedan mosques in praise of God, the Prophet and his descendants. This was pronounced in former times by the reigning Khalif, or the heir-

Afil reads شيداندو هشم (Bib Ind , p 48). Elhot (III, 277) has Shirabrü chasm 3 MS illegable.

<sup>4</sup> Keeper of the seals

<sup>5</sup> Afif narrates that a slave named Malik Tüntun (Zia Barni

tion or consideration, Khawaja Jahan brought out a youth of obscure origin,1 describing him as a son of Sultan Muhammad With the consent of amers and maliks of Delhi, he placed him on the throne, on the 3rd Safar of the afore said year, under the designation of Sultan Chivasud-din Muhmud, and himself managed the affairs of the Kingdom Saiyid Rasuldar and Malik Saifud-din reached Delhi and showed the auspicious firman of the Emperor (Firoz Shah) to them (Khwaja Jahan and his associates) As Khwaja Jahan had undertaken the work without any proper thought, he perforce, persevered in his actions. Some of the amirs and maliks, such as, Malik Natho, the chamberlam, Aāzam-i-mulk Hisāmuddin, Sheikh-Zādā Bustāmi, Málik Hāsan Multani, and Malik Hisamuddin co-operated with him; while others, e.g., Shar(u-) Mulk, Malik Zablan, Amir Kutba'h, Malik Khaljin, Malik Hasan, Amir-t-miran, Kazi Mir, Khwaja Bahaud-din Thikra, Malik Muntakhab Balkhi Malik Badruddin Naubahari secretly sent petitions expressing terms of sincerity to the Emperor, may God exalt him! Khwaia Jahan invited Mahmud Beg from Sannam, but the latter showed his negligence, and sent a petition guaranteeing help to the King (Firuz Shah) Letters had also been despatched to Khudawandzādā Tarmud and 'Ainu-l Mulk at Multan but they transmitted this letter of Khwāja Jahan to the Emperor, who (thus) became apprised of Khwaja Jahan's enmity. Khudawand-zada and 'Amu-l Mulk were honoured with compassion and special presents from the King for their having joined the imperialist cause.

Leaning that the King was approaching against him with continuous marches, and that a large number of men had flocked to his standard. Khwaja Jahan sent as messengers, Sanyid Jalalu-d-din Karmati. Mailik Dhilan. Moulānā Nazmu-d-din Razī. Daud, and Moulānā Zadā. (for the purpose of explaining to Firoz Shah) that the empire was still in possession of Sultan Minhammad's family; that Firoz Shah should accept the office of deputy and the heirship and devote himself with energy to the performance of the affairs of the empire; and further that, he (Firor) might choose some of the ikta's of Hindustan and any noble whom he might select could join him

Alton) had been sent from Delhi by Khawaja Jahan to Sultan Muhammad (at Thatta?) and just on the Sultan's death, he started on his return increase to Delhi.

journey to Delhi.

1 Str. Wolsey, Hazg is of opinion that there is much to juvitly the behef that the child was Muhammad's son and that the allegation that he was not was an attempt by panegyrant to improve their patrion's fissible hereditary title. Combridge History of India, III, 174 Journal Royal 2 MN Highelb T.A. (for Tabaquai-thAbari), (Bli ind.), 242,

<sup>&</sup>lt;sup>2</sup> MS illegible T.A. (for Tabaqat-i-Akbari), (Bib Ind.), 242, Sayyad Jalai.

<sup>&</sup>quot; MS reads پلان, : T.A. (sbid), 242. Malik Dhilan.

T.A. (ibid.) has "his own Moulana Zada."

On the arrival of the afore-said embassy, Firoz placed it under guard, and summoning together the chief of the Sheikhs. Kutubu-l Aulia Nasiru-l Huq-u-Shara'au-d-din,1 may God have mercy on him. Moulans Kamalu-d-din Samana and Moulana Shameu-d-din Bakharzl2 explained to them thus, "Thou dost all know how I was the favourite of the late Sultan, and further, thou must have heard how Khwaia Jahan has placed on the throne a young lad as the soi-disant son of Sultan Muhammad; if the late Sultan had any issue left I might have been in the know, and if he had any son he must have had placed him under my guardianship, for, none was a better patron or a friend of his than I Him (the false heir) has the Khwaja placed on the throne and the people of Delhi have accepted him as their ruler." In conclusion the Sultan enquired, "What in your opinion is the exigency of the hour, what do you advise me to do, and what is the proper step to be taken (now)?" Thus replied Moulana Kamaluddin, "Whoever has undertaken the duties of the empire ever since the beginning has the priority of claim, and he is the sovereign "

The emissaries who had arrived, such as. Sayvid Jalabulan Karmati, Moulfañ Nazmati, and Malik Dillan remanued near Firoz Shah, while (Sheikh) Daud and Moulfañ Zdid returned to Kjiwaja Jafañ A firmân was issued statung that if kjiwaja remembers his obligations to the Sultan for the latter's having conferred upon him the favours and his past services he would do well to give up his opposition caused by his foolishness and aberratum and to betake himself to the path of obsdience, as in that case more favour would be shown to him and his faults and sins condomed Returning to Delhi. (Sheikh) Daud brought the (alove) firmân to Kjiwaja about a recunciliation) increased his vigour, magnificence strength and opulence; the people joined him from all sideses strength and opulence; the people joined him from all sideses.

Meanwhile Abu Muslin, Malik Nahiri Beg, sons of Malik Mahmud Beg came to the Sultan with their petitions and presents, and were favoured with (royal) compassion. When the Emperor arrived at Sarvatt, Malik Kawamud-dint arming himself came out of Delhi at the time for the meridian prayers, on Thursday, the last day of Jamadiul-lakhir of the same year, with his squipage, attendants and harem, and sought refuge from the Emperor Amir Mu'asam Kutbgha, too, joined Kawamud-dila, and his courters came to the Sultan at Fatha-

<sup>1</sup> T A reads Sheikh Nasirud-din Muhammad Auhch 2 MS reads (2004); T.A. reads Bākharzī.

<sup>3 &</sup>quot;It is 90 Kos from Delhi," Afif: in the course of his progress from Thatta to Delhi, Sultan Firez Shah took the route by Dipalpur, Multan, Ajodhan and Samut.

<sup>4</sup> Krwamu-l Mulk, Afif (Ell. III, 283); He was also called Malik Maq-

bad on the same day. It was here (Sarsuti) that tidmes arrived of the birth of Shahzada Fath Khan, and the news of the death of Taghi (also) reached him (the Sultan) there from Guzarat On the day following, as Kıwamu-l Mulk had come out. Khwaja Jahan, of necessity, went near the Sultan, and alighting himself at Hauz : Khass 2 appeared with the adherents before the Sultan at Hansi, and stood concealed before the assembly with turbans round their neck.3 The Emperor ordered that Ahmad Ayaz (Kliwaja Jahan) should be made over to the Kotwal of Hansi, and Malik (Chijasu-d-din) Khitab should be conveyed to Tabarhind; Nathu, the chamberlain, was exiled to Sannam, and Sheikh-Zada Bustami was ordered to leave the country. Hisāmud-din (Uzbek)\* was kept detained by the general of the army.

In the month of Rajab of the aforesaid year (752 H., September 1351, A.D.) the Sultan entered Fuoz sarrival at Delhi Delhi 'The people welcomed him and and his acression received royal favour (in return). At the

fortunate aspect of the stars, the Emperor alighted at the palace of Khatun on the 2nd Rajab (August 1351 A D.) and engaged himself in carrying the administration of the state and looking after its welfare.7

In the same month (Rajab, 752, H.8) Firoz Shah marched towards the Sirmur " (hills), and after a lanse of four months he came back to Delhi

bul He was the ablest noble in the Kingdom, and was a Brahman of Telingana who had accepted Islam.

<sup>1</sup> Fathabad was the name given to the newly constructed city at the site of Ikdar where the crown-Prince Fath Khan was born. Elhot III. 283.

Afif. Hauz-4-Khās-t- Alā 3 Afif writes, "Khwāja wont into his presence with a chain around his neck, his turban off, a talika on his head, and a naked award instance to his throat, and took his standing low down among the attendants

<sup>4</sup> Tabakat-i-Akbari (Bib. Ind., 243) Badaoni (ibid., 243), and Firshta (Briggs I, 448) agree in saying that Khwaja Jahan should be made. over to the Kotwal of Hansi, whereas, Afil describes how the Emperor wished to re-instate Khweja as Väizser. At length, Sumana was assigned to him in in'am, and when he had set out for that place he was beheaded by Sher Khan

<sup>5</sup> The boy whom Khwaja Jahan had proclaimed as Sultan.

<sup>6</sup> MS umntelligible.

<sup>7</sup> Afif writes, "The Sultan conciliated his subjects by remitting all debts due to the State; reduced the demand on account of land revenue. abolished levying of benevolences and the vexatious cesses; appeared with gifts the heirs of those who had been executed in the late reign, etc.

<sup>8</sup> Budaom gives 753 H., T A. gives 5th Bafar, 753 H., Firishta writes 5th Safar, 754 H. The Sultan went there for excursion and sports 9 In the Punjab, bet. 30' 20' and 31' 8' N. and 77' 5' and 77' 55' E.

on the west bank of the Jamuna and south of Simis.

June 5

second Muhammad, rince 3rd Jamadiu-l awwal.

On Monday, the 3rd Jamadiu-l awwal,1 of the year, Prince Muhammad Khan was born. this joyful and happy tidings and auspicious news was conveyed to His Majesty, he signalised the birth of the prince with feasts and rejoicings. This prince was

born during the period of the Sultan's sovereignty, and from the day of his birth the prosperity and splendour of the empire were on the increase.

Upon the whole, a few months later, of the year, His Majesty marched towards Kalanor, and The Sultan proceed to hunting in Makh Jahur retraced his way Kalanor to Delhi.

Construction of edifices and conferment of titles, etc. on Amer

The same year the Sultan laid the foundation of the Jami'a mosque near the palace and a madrassa on the hauz-i khāss! He conferred the title of Sheikh-ul-Islam on Sheikh-Zada Sadruddin,4 grandson of Sheikh Kabir Kutubu-l Auliau-l Huo wa Shar'au-d-din

Zakariah, may God have mercy on him; Kawamu-l Mulk Mahk Magbul, the Naib Vizter, was made the Vizter and was honoured with the designation of Khan-i-Jahan; he further, received a diploma and a gold casket. Kludawand Zada Kawamu-d-din received the title of Khudawand Khan and became the Vakildar: Malik Tätär became Tätar Khan; each amir obtained different kinds of umbrellas; Maliku-sh Shark Sharafu-l-Mulk was made Naib Vakildar; Khudawand Saifu-l Mulk the Shikar-Khudawand-zādā 'Imadu-l-Mulk the chief Sılahdar : 'Amu-l Mulk received the post of Musharrif of the countries.5

In the month of Shawwal, in the year 754 H. (December

1553 A.D.), the Sultan started with a Nultan's first expedilarge army on an expedition to Lakhtion to Lakhnauti nauti." Leaving Khān-i-Jahān in charge of the State, great and small, the Sultan with continuous

1 Badaon: gives the date, Rapab 753 H.

<sup>&</sup>lt;sup>2</sup> Later known as Nasırud-din Muhammad Shah.

Nummuddin, Criebta and Badsom simply write, "the Sultan laid the foundation of lofty edifices on the bank of the Sarsuti." 4 Badnoni calls him Sheikh Sadrud-din Multani, and says that the

lofty building built on the bank of Sarsuti was given to Sadruddin.

5 Nizamaddin says that 'Ainu-i Mulk received the post of Musicust. and Musharral of the Diwan

<sup>&</sup>lt;sup>5</sup> in 1946 Haji Iliyas, styling himself Shamsu-d-din Iliyas Shah had made himself master of W. Bengal, and after having overthrown Eght-yan-d-din (bhaz Shah, the ruler of E Bengal in 1852, established his dominion over the whole of Bengal. The proclamation that was assued by Firuz Shah in 1353 A.D. explained the cause of the invasion to be the wrongs and oppressions of Haji llyas. See J.P.A.S.B., XIX, 1923, No 7, pp 253-290.

marches reached his destination.1 On the King's arrival in the neighbourhood of Gorakhpur, Udava Singh Udaya Singh of waited upon him, and having presented a Gorakhpur submits.

the recipient of imperial favour.2

lac of tankas and two elephants became

On the 7th Rabi'ul Awwal,3 the Sultan arrived at the fort of Ikdāla. and there was a great battle The Bengalis were slain, and the casualty was very great. Shalideo, their chief. with several others was killed on that day On the 29th of the month, the Sultan left the place, and encamped on the bank of the Ganges Iliyas Haji took refuge in the fort (of Ikdala), and on the 5th Rabi'ul Akhir, he marched out at the time for the meridian prayers with his equipage, attendants, and countless Bengalis

The Sultan drew up in order of battle, and immediately as Höjt perceived it. he was alarmed and fled. The imperialists made a hot pursuit Flight of Thyas Haji. and laid their hands upon the canopy and forty-four elephants. and a large number of Iliyas' horse and foot was made food for the sword The Sultan halted there for two days,7 and on the third day, he made his way to Delhi 8 Foundation of Fireza-Some months afterwards. His Majesty

bād. laid the foundation of the City of Firozabād," May Allah protect it from all evils!

<sup>1</sup> Ant writes, "the Sultan tollowed by way of Champaran and Rachap:" Burni says, "the march was through Gorakhpur, Kharosu, and Tirbut

<sup>2</sup> Nizamuddin writes, "Ray Kapur, also, paid the tribute of several years, and both of them (Kapur and Udaya Singh) joined the army.

3 MS, reads 28th Rabi'el Awwal. Firishts (Brigg I, 440) and
Nizamuddan (Bib Ind., p 245) write 7th Kabi'el Awwal. We have

adopted the latter version. 4 Iliyas who had rashly invaded Tirbut with the object of annexing the s. eastern dists. of the Kingdom of Delhi, retired, at the approach

of Firoz, to his own capital Pandua, and thence to Ikdala. Westmacott, in Calcutta Review (July, 1874) places Ekdalah (Akda-lah) some 42, m. on the Maldah eide of the river Tangan and North of Gaur and Lakhnautt. Major Raverty (Tabakat Nasıri, Bb. Ind, p. 591, f.n ) identifies Akdalah with Dainduma, a corruption of Damdamah, in the pergh, of Debekote, between Lakhnaut, and Dinaipur. Wolsey Haig places Ikdala on the island in the Brahmaputra (Cambridge Hist. of Ind ,

III, p. 176).

There is no mention of Shahdeo in Nizamuddin, Badaoni, Firishta, and Afif.

A detailed account of the battle has been given by Afif.

<sup>7</sup> Afif says that, the new names which the Sultan gave to Ikdala and Pandwah were Azadpur and Firozabad respectively.

8 "The rams having commenced, Firoz Shah had to abandon the in-

vestment, came to terms with Iliyas and retired towards his own domi-nions by the Maniekpur ferry." Afif. 9 The Sultan returned to Delhi on the 12th shaaban 756 H. (July 12,

<sup>1355</sup> A.D.). This Firozabad was different from its name-sake which arose from

In the year 756 H. (1355 A.D.) the Emperor went 1 in the direction of Dipalpur, and excavating a

Construction of Conals.

direction of Dipalpur, and excavating a canal from the Sutlej 2 took it to Jhajhar, a distance of 48 Karohs. The next year,

he excavated a canal from the river Jon in the vioinity of Mandal and Sarmur; and uniting seven other canals with it, took it as far as Hansy. From that place he extended it to Alian? and there laying the foundation of a strong fort, gave it he name of Hisar Firoza. Below the Kiosk an extensive reservoir was constructed which was filled up with water from that channel. Another canal was excavated from the Khakhar (Ghaggar), and conducting it past the fort of Sarsuti was taken tharm-Khirah. In the ween these canals he (the Emperor) erected a fort, and called it Firozabad. Another aqueduct was drawn from Badmani. and conveyed to Jaun, thence to

- the change of name of Panddah. This new town situated on the banks of the Junna, occupied the sites of the old town of Indarpat and 11 other villages or hamlets, and contained no fewer than 8 large mosques
  - "Went to hunt," T.A. (ibid., 245)
    TA "Satled". Firishta, "Sutloog."
- 3 Badaom, "Jahjar" Firishta, "Kugur". Jhajjar, a town within 40 m. of Delm. in the Robiak dist Puntab
- 4 MS مغرنی Firishta, "Mundvy"; Badaoni, Manddii oi Mandii i, T.A "Mandal", Elliot, "Mandat" Mandawi a village in Karnal dist Punjah, on the route from Haust to Laddhyans, and 51 m north of the corner town It is stuated on the left bank of the Gaggar Distant
- N.W. from Cal. 1027 m Lat 29 48', Long, 76' 3'.

  Shadaoni, "Sartir," Frishta, "Nurmore"; T.A. "Sarmur"

  Ilisar dist Punjab, Lat 29 6' 19'. Long 76 0' 10'.
  - " Hussar dist Punjab, Lat 29 6 19". Long 76 0 10".

    7 MS. زاستی: Elhot, "Araman". TA, "Ahsin" Badaom. Ras
- Firishta, 'Rausen''. Afif, "Laras."

  \* The foundation of Hissar was laid on the sites of two villages,
- The foundation of hissar was laid on the sites of two villages Laras-i-Buzurg and Laras-i-Khurd.
  The city and the fortress stood in the midst of a sandy desert, and

The city and the fortress stood in the midst of a sandy desert, and was all supplied with water. It was to remedy this defect in the city which Firoz proposed to build here, that he caused canals to be drawn to it

The western Jamuna canal, an unportant personnal irrigation work in the Pumph, taking off from the west bank of the Jamuna and irrigat mg Arnishi, Karmal, Hausar, Richtak, Dehh Diste, and parts of Pasinia mg Arnishi, Karmal, Hausar, Richtak, Death Diste, and parts of Pasinia known as the Okamanet of Poince Shah who utilized the torrest bed known as the Okamanet of Poince Shah who will be the same and Hausar But after 100 years its water ceased to flow facther than the and Ensure But after 100 years its water ceased to flow facther than the land of Kvithla, and Akber resexvated the work of Frozz in 1685. In the regard of Shah Jehan, his engineer, Ali Mardan Khan, undertook a more billious schools, and took like water through Pannes and Sonepat to Dillious schools, and took like water through Pannes and Sonepat to

\* Riliot, "Harls Khun" or Hari Khus, T.A. (245) "Korah." Badoon, "Hard Khun", Furshta (Ruge, 446) "Pery Kohn." Iswar tt. Methaval India, "Hari Khin" or "Bhenn-khen." Resal says (p. 73) istre the menting of the Saledge and the Beyah, the name of Natolige's no more heard of (above Mutsun at least.) that of Kerah being the name of the confluent waters.

<sup>10</sup> T.A. (ibid., 245). "Budhi" (river): no reference of this either in Firishta or Badoom. Firozah, and into a reservoir, and further to a point beyond

a robe of honour and a diploma 3 arrived

from the Khalifa Al-Hakim bi amrillāhi

Abul Fath Abu Bakr ibn Abil Rabi Sulei-

In the month of Zilhijjah (January) of the same year (757 H, 1356 A D.). on the day of 'Id-uz-hia,2

Arrival of a robe and diploma from the Khalif of Egypt

man, the Khalif of Egypt,4 confirming the committal of the

countries of Hind.5

Arrival of an embassy from Lakhnäuti

\* \* \* The same year, there also came the plenipotentiaries from Iliyas Hājī of Lakhnauti with valuable presents. They became the recipient of excessive favours and endless affections

after which they returned. On another occasion, there (again) came presents from Ilivas Haji, and (the envoys) kissed the royal feet at Hissar Firozah. Thus the Sultan addressed them, "My humble servants possess better effects than those that you have brought here: henceforth, you should bring such picked elephants which a King should present to a brother King".

In the year 758 H (1358 A.D.) Zafar Khān Fāzri came from Sonargaon \* \* (with two elephants Arrival of Zafar Khan and attached himself to the court. He from Sonargaon was received with favour and received the office of Naib Vizier).7

<sup>1</sup> Afif is very concise in his statement of Firoz's canals, and refers only to the two canals, the one from the Januan to the city (Hissar Firoza?) and the other from the Sutley to the above place, the former called Raywah and the latter Alagh-Khani, and both passing through Karnal. Being an inhabitant of Sirhind, and probably possessing more geographical knowledge of the Canals, Yahiya has given an account of the cauals with greator detail The later historians, such as, Nizamuddin, Firishta, and Badaon have followed Yahiya.

<sup>.</sup>عبدالصحى an error for عندصعته 2

<sup>.</sup> منشور an error for دشور 3

should be deleted و Hore و MS. reads دارالخلاقة و صعب MS. reads

<sup>5</sup> Afif is reticent on this incident, whereas Nizamuddin (ibid , 245). Badaoni (ibid., 245), and Firishta (ibid., 450) all agree with Yahiya \* \* Portion within the asteriak has been omitted in Elliot.

<sup>.</sup> We have followed Nizam ،ظفر خان محمد کر فارسي . MS. roads

uddin. (ibid., 246). Firshta (ibid., 450) writes Zafar Khan Farsy.

\* Here begins the most grievous error of the copyist of the MS The transcription has been most wrongly done, e.g., Zafa's arrival from SonErgaon is to be found in p. 146 of the MS. and the subsequent events have been narrated in the following order, pp. 150, 157, 158, 151, 152, 153, 154, 155, 154 (time 7), 149, 150, 145 (time 15), 146, 147, 148, 156 (time 2).

<sup>&</sup>lt;sup>7</sup> The MS. being not clear the bracketed portion has been taken from Nizamuddin. (T.A. ibid, 248). Badaoni makes no reference of this event: Afif, Yahiya, Nizamuddin, and Firishte are almost unanimous, and of these Afif is more elaborate. The latter gives in detail the circumstances that led to the arrival of Zafar Khan to seek the protection of

Emperor murches to Samana for

hunting. had arrived on the frontier of Lahore

Retreat of the Mughals from Lahore.

Exchange of presents

with Lakhnautt

sud-din at Lakhnauti. Death of Shamsud

den of Lakhnaute and the accession of his son Sikundar

In Zilhijjah of the year 759 H. (1358 A.D.) the Sultan started towards Samana, and there engaged himself in hunting.1 Meanwhile there came advices that an army of Mughals

Malik Qabül Sarbardadars (lord of the bed-chamber) was ordered to proceed with an army against them.

but the enemy, before his arrival, retreated towards their own country. The Sultan returned to Delhi About the end of the year, Tajuddin Betah 3 came from Lakhnanti with some other annus as ambassadors, bringing

with them articles as tribute, and were honoured with the royal favour 4 In return, the Sultan also sent Turkish and Arabian horses, fruits from Khorassan, and every kind of other presents under the charge of Malik Saifuddin the keeper of the (royal) elephants, who accompanied Malik Tajuddin to Sultan Sham-

Arriving at Bihar (the party) learnt that Shamsud-din had expired, and that his son had become king under the title of Sultan Sikandar.5 The envoys from Lakhnauti were detained at Bihar, and the event was notified to the Emperor

The Sultan ordered that the presents which had been sent to Sultan Shamsud-din should be brought back; the horses should be made over to the army at Bihar and the ambassador (from Lakhnautt) should be conducted to Karah. The firmen was carried out to the letter 6 In the year 760 H. (1359 A.D.) the Sultan marched to-

wards Lakhnauti, leaving Khan-i-Jahan at Delhi, and after Fires Shah (See Bib Ind., p. 137 etseq · Elhot, III, 303) After the mus-

der of Sultan Fakhruddin, King of Sonargaon, at the hands of Shansaddin, Zafar Khan, the son-in law of the decoased sovereign was sore distressed, and fled to Thatte and Dolhi enrouse Hissar Firozah, to seek the protection of the Emperor.

1 Afif has passed over this incident. But Nizamuddin, (TA slud. 246). Badaon: (Bib Ind., 246. Ranking 1 328), Firralita (Brigg 1, 451) all

ngree with Yahiya.

2 Aff, Torsband

3 T. A. simply Tajuddin . Badaom and Firishta give no name There is no reference of Tajuddin's embassy in Afif. But Nizemeddin, Badaoni, and Firishta all agree with Yahiya.

5 Fireshts, "Sultan Shah Poorboa"

6 Afii (Bib , Ind. 100-105; Elliot 111 290-92) narrates another event of unportance which took place in 1358 Yahiya, Nizamuddin, and Badaoni are all reticent. In 1358 Khudawand Zada, the Emperor's rousin and her husband formed a plot against the life of Firoz Shah, but it was frustrated by her son. The cousin was imprisoned and her hushand banished.

7 The Sultan, by his action, broke the senetity of the treaty made with Shandar's father, and invaded the dominions of his son on the

frivolous ground of vindicating the rights of Zafar Khan

deputing Tatār Khān to proceed from Ghaznin to Multān.

Firoz Shah'a second expedition to Lakhnautt.

When the Sultan reached Zafrabād, the rainy season set in, so he made a halt. At this place, A yani Malik Sheikhzada-Buustami, who had been banished by the

Sultan.2 brought a robe of honour from the Khalif of Egypt, and the Emperor being graciously dis-Arrival of a dress from posed towards him, dubbed him, A'zam the Egyptian Ishalit. Khān Saivid Rusuldar was sent with the messengers of Lakhuauti to the Sultan Sikandar, and the latter despatched five elephants and other costly presents to the court with the Saivid Before the arrival of Saivid Rusuldar, 'Alam Khan had come as an ambassador, and to him a firman had been issued to the effect that the Sultan Sikandar was foolish and mexperienced and had straved from the path of rectitude. The Emperor had, at first, no desire to draw the sword against him (Sikandar), but as the latter had not discharged the duties of obedience, he must now understand that His Majosty was marching against him Firoz Shah, when the tams were over, shaped his course for Lakhnautt, and, while on the way, conferred the ensures of royalty, such as elephants and a ted paython on Prince Fath Khan, and directed coms to be -truck in his (Prince) name and officers\* to be appointed under him When the Emperor arrived at Panduah, Sultan Sikandar shut himself up in the fort of Ikdala, whither Shamsuddin.

Sikendar takes shitter in bladala May, 1360.) the Emperor cueamped at the bladala May, 1360.) the Emperor cueamped at the model of sometime, the garrison, perceiving the futility of their opposition to the assailants capitulated in heu of despatching elephants, treasures and goods as tribute On the 20th. Jamadhul awwal of the year, Firoz Shah marched out from Ikdika on his return poursey, and on his reaching Panduudi, Sikandar made hum a present of thirty-seven elephants and other valuable articles.

his father, had been in the habit of going for refuge. On the

16th Jamadiu-l awwal, 761 H, (5th.

Tho teat in the MS give in o sense. المحددة والمستعدد المستعدد ال

<sup>2</sup> The fault being that he had become intimate with Ahmad Aiyaz.

<sup>3</sup> Firishta, 'Azim i-Moolk' 4 Firishta writes "tutors"

Firshta, "Bundwa".

o Frinkts says," that Sikandar sent 48 elephants. Badaon: writes, "thirty-seven elephants". Nizamuddin states, "the Sultan agreed to send a yearly triunte of elephants". Alf writes that on the conclusion of peace between Sikandar and Froz Shah on condition that Zafar Khan

With continuous marches! His Majesty arrived at Jaunpur,2

when the rains having commenced, he quartered his army there. After the The Emperor returns via Jaunpur. Br. expiry of that season, in the month of Zilhar, and Jamagar. hiljah of the same year, the Emperor

moved by way of Bihar to Jajnagar 3 A firman was issued that the baggage-animals, the women, the disabled horses, and the old men should not proceed. He left Malik Kutbuddin, the brother of Zafar khan, the Vizier, at Karra with elephants and baggage, and hastened forward; on reaching Satgarh 5 he

plundered it, and its ruler fled Shakr khātūn, daughter of the Rai fell into the Flight of the Ray of Satourh. Emperor's hands 8 The Emperor pro ceeded further, and left' Imadu-l Mulk one stage behind with some attendants and baggage Ahmad Khan who had fled from Lakhnauti, and had taken shelter in the fortress of Ranthambar, 9 joined the Sultan and was honoured with great favour-

should be placed on the throne of Sonargaon, the Emperor sent into the fort of Ikdain a grown worth 80000 tankas, and 500 valuable Arab and Turks horses with an expression of wish that henceforth they might never again draw the sword. Sultan Sikandar, in his turn, sent 40 elephants and other valuable presents

Afif says by way of " Qanau; and Oudh '

2 Muslim historians derive the name Januara or Junan-pur from Jauna or Jaunan, the title by which Muhaminai Tughliq had been known before his accession, but the City of Firoz was not the first site. and Rindus derive the name from Jamadagni, a famous risks

B Dr. Blochman in his "contributions to the Geography and History of Bengal, "identifies Jājnagar with Jajpur of the present day Raverty (Tabakat Nasur, Tr Bib Ind 588 f n ) gives the following boundary of Januagar : on the east, a range of hills forming the present W boundary of Udisah-Jamath, Katasm (on N or left bank of the Mahanadi, some 30 miles east of Boads, in about Lat. 20° 32' Long 84° 50' being the nearest frontier town or post towards Lakhan or portion of the Lakhaswat territory: further north, it was bounded towards the east by the river called Brammy running to the W. of Gangpur, Its northern boundary included Ratanpur and Sambalpur; on the cest the river Wana-Ganga and its feeder Kahan; on the south Gudawan,; S. W.

Telinganah. T. A., "Karah Kantakh": Afif and Badaom, Karra.

5 T. A. "Sankrah": "Firishta "Songhur": Badaoni, "Satgarh" Elhot "Sikra": Raverty (thid.) identifies the place with the present Sirgouah.

<sup>6</sup> T. A. "Rai Sărbîn": Firishta, "Rai Sidhun": Raverty, "Rai Săras" Afif, "Adâya".

7 Firishta also styles her Shakr Khatun, signifying "the Sweet Lady". According to Reverty and Brigg "it is an impossible name for a Hindu unless she became a convert to Islam, and was afterwards so named "

-Nizamud شکر خان دخدر رای سادهن بادانه بدست آمو --. Ms. reada گ din writes. The Emperor called her (Shakr Khatun) "daughter" and protected her: Raverty writes, " He called her daughter and adopted \*. Firishts is of same opinion: No reference in Aff.

\* Elliot, "Ranthor": Raverty (ibid, 591 f.n.) "Ratanpur, in Jhar-

Kundah."

The king thence proceeded to the city of Banāras,1 the residence of the Rai (of Jainagar) and crossed the Mahanadi. 2 The Rai made his retreat towards Tilang. The Sultan made a day's

Journey in his pursuit, but when it

Flight of the Rai of Jajnagat towards Tilang.

appeared that the Rai had gone far in advance he gave up the pursuit and commenced to hunt in the neighbourhood.5 Rai Bir Bhan Deo, 6 sent some persons to sue for peace.

(and begged) that his subjects were not Rei Bir Bhan Deo killed The Emperor, as his wont, turned Sucs for peace aside, and (the Rai) sent thirty-three elephants and other valuable articles as tribute. From thence the Sultan fell back and hunted in Pad-The Sultan's elepmawati and Param Talao, the grazing hant hunt

grounds of elephants. He killed two of them, and caught thirty-three alive. Zia-ul Mulk composed the tollowing quatram 7 -

The Shah, who with justice, to permanent power did attain, Like the shining Sun, the environs of the world he held!

To Jajnagar he came the elephants to hunt,

Two he killed, and three and thirty Captured be 8

From that place the Emperor came to Karah by successive marches, and continuing his progress teached Delhi, laden with victory, in Rajab, 762 H 9, (1361 A D.).

After sometime, His Majesty learnt that in the vicinity of Bardar 10 there was a hill of earth, out of which ran a stream that emptied into Satlad (Satlaz 11) it bore the name of Sarsuti. On the other side of the mound there was another stream called the Salima 12 If the earthen dike were cut

3 Talinganuh : T A., and Badaoni read Tilang : Afit writes, " Rai

fled to an island in the river." Firshita, "Tulingana".

4 Afif and Nizamuddin writes that the Sultan did not pursue the Rai. Badaoni agrees with Yahiya · Firishta is also of the same opinion.

During the expedition aguinst Jajinagar the Sultan caused the idol of Jaguunath to be rooted up and treated with every mark of indignity and then carried over to Delhi. Afit and Strat i Frozzhishi Frishta (Briggs 1, 432) Reja of Birbhoom: Badeoni, Rii Parihen

Doo: Elliot, Rai Bir Bhandeo

Nizamuddin and Badaoni both quote the quatrain.

8 The copyist has made a mistake in transcribing this quatram Badaoni and Firishta give 762 H: Nizamuddin, 772 H. In course of their progress, the Imperialists lost their way and wandered for six months; numbers perished from hardship and privation.

10 Firishts, "Perwar":

11 Badsoni.

10 Firishta, "Perwar": 12 Nizamuddin "Aslima " Badaoni and Firishta "Salima":

<sup>1</sup> Afif, "Baranası": Badaonı (Bib, Ind.) Barûm: Ranking (ibid., 329) Bardnau: Nizamuddin Banaras: Afif states that there were two forts in Baranasi, each populated with a large number of people; the country was prosperous with the inhabitants and spacious houses and fine gardens - Badsoni, "Mahandāri": Ahi "ماندري": T. A. "Mahandāi".

Thatte

Muhammad

through, the waters of the Sarsuti would fall into that stream (Salima) and (both) would flow through Sihrand, Mansurpur, and Samana. The two streams were connected with each other, and it took sometime in cutting through the hill.1 Sihrind and for ten krohs beyond was separated from Samana, and put under the control of Malik

Ziau-l Mulk Shamsuddin Abū Rijā. A Sibrind entrusted on fort was built there and it was named Shamsuddin Aburua Firozpur

The Sultan marched

\*\*\* The Sultan from thence went to Nagarkot, 2 and after conquering it proceeded towards Thatta 3 At the time when the king agninst Nagarkot and leached Thatta, Jam and Babiniya were in possession of the place. By dint of

"Salms has received the modern name of Khanpoor Kee Nala" (Khanpur stream), Briggs (thirt.) · · · Salima · has been identified with Markanda, which uses near Nahau and flows past Shahabad, to the south of Ambala "Cambudge Hist of Ind., III, 179 Backons write-The Salima is also called the Saisuti and this river consists of two large streams which are always flowing, and situated between these two streams there is a high mound of dyke ' Normaddues descun tion is similar

1 Nizamuddin, Badaoni, and Furshta write that 50000 spade men were engaged for the purpose and that inside the dike very large bones. or men and elephants were found out the bone of a man's arm was 3 yd- m length

\*\*\* Afif writes that "after the return from Lakneuts, the Sultan went to Daulatabad upon a hunting expedition, and testing for a while at Biyana matched towards Nagarkor"

حيين سلطان كأفدر كوة مدكر Here the text in the MS is not clear .قابل ند<sub>'</sub>د

2 Its Raja submitted and met with royal treatment. The name Nagarkot was changed into Muhammadahad after the deceased Sultan

Aff controducts the false statement made by the infidels that the Sultan went to see the idol Juülā Mulhi, and held a golden umbrella over it. Fireshta, on the authority of some historians say that the Sultan broke the idols of Nagarkot and mixing the pieces of cow's flesh, filled bags with them, and caused them to be tied round the necks of Brahmus Further, that, the Sultan ordered one of the books which treated of astronomy and found in the library at Jwalamukhy consisting of 1300 vols to be translated in Fersian by Izzudin Khem under the title of Dalari : Firozshahi other books, translated in the name of Firoz, were the science of Pingal (Music), Plus Büzz, (dealing with A'khāra or an entertainment held at night and consists of singing and disnems by femiles).

The enforced retreat from Sind and the insolence of the Sindhis

had rankled in the memory of Firuz ever since his accession. He set out for the country with 90,000 horse and 480 clophants, and collected on the Indus a large flat of boats which accompanied the army down stream to Thatta.

\*Firishta, "Jam Bany, the son of Jam Afra. Badaon, simply Jam" "Aff" Jām brother of Rāi Unar, and Babmya, his brother's son · Mir Masum (Tarikh i Masum, Ell I. 226) calls him Jam Babiniya. The author of Tuhfatu-l Kıram (Ell. I. 342) who says that, Jam great exertion the place was invested, and fighting went on for sometime, but provisions and forage becoming scarce, men died of hunger, so that of necessity and after a struggle, the Sultan was obliged to retire into Guzarat. 1 The fief of Guzarat was conferred on

Guzarat was conferred upon Zafar Khān

Zafar Khān and Nizamu-l Mulk, who having been dismissed 2 (from Guzarat) proceeded with a body of men to Delhi where he was appointed Naib Vizier of the state. After

the rains when the Sultan reappeared before Thatta, Jam and Babmiya sought for quarter and waited upon His Majesty. They were taken into favour The Sultan's reapand with all the chiefs of the country nesigned at Thatta. they accompanied the king to Delhi and the submission of

his having shown obedience, Jam was sent Jam and Babmiya in state to resume his government 3

In the year 772 H. (1370-71 A.D.) Khan-i-Jahan, (the Vizier) died, and his eldest son Juna Shah succeeded to his titles The following year, Zafar Khan breathed his last in Guzarat and was succeeded by his eldest son 5 in the fief. Then in the year 776 H (1374 75 A D ), on the 12 Safar, Prince Fath Khān died at Kanthur, for which, the Sultan was plunged into affliction, and his constitution received a manifest shock.

In the year 778 H Shamsu-d-din Damaghani offered annually 40 lacs of tanks, 100 elephants Insurrection of 200 Arab horses, and 400 slaves children Damaghani of Hindu chiefs and Abvasinians, over

Khairuddin was the chief of Thatta, is not to be preferred to Mir Masum. The ruler was Jam Malt, son of Jam Uner, and he was assisted in the government by his brother's son, Babiniva Cambridge Hist of Ind., 111, 180

<sup>1 &</sup>quot;Where his troops night recruit their strength and replace their horses." C.H I, III., 180

Afif here describes how the Imperialists fell into the Knein ran (the Ran of Kach), how there were lamentations of the soldiery, and the anxiety of the Sultan, and finally how the supplies were sent by Khan-i-Jahan to the Sultan

<sup>2</sup> As Nizamu-l Mulk had failed to send either guides or supplies to the Imperialists when they suffered during their course of progress in the Rau of Kach he was dismissed from his post; the commandant at Guzarnt.

<sup>3</sup> Afif states that the son of Jam, and Tamachi, brother of Bubiniya, were placed over Thatta and titles were conferred on them The Sultan then marched for Delho, taking Jam and Babiniya with all their establishment in his train. But Mir Masum, agreeing with Yahiya writes that Jam Babiniya after remaining in the Sultan's retinue for sometime was restored to the government of Sindh. The author of Chachnamah is also of similar opinion

<sup>\*</sup> Firishta (ibid., 455) gives 774 H: Badaom (Bib. Ind. 250: Ranking I. 333) agrees with Yahiya.

b Firishta (ibid.) calls him Darya Khan: Acc. to Firishta Zafar's death took place in 775 H. 6 Ms. reads مقدم دریکان Badaoni, "Muquddam Zādas".

and above the present payment for Guzarat. The Sultan ordered that if the present deputy-vicetory of Guzzata, Zinu-1 Mulk Malik Shamsuddin Alu Rija 1 consented to these enhanced terms, he should be continued in office Knowing that be could not pay them, and that Shamsuddin Difmaghini had put forward an extravagant offer, Abu Rija did not agree to the proposal; Dimaghani then received a golden girdle and a silver palanquin and was appointed governor of Guzzart.

Seathing Guarat: wild dreams and percence thoughts retreated his brain, and be raised the hanner of unsurrection for he found that he was unable to fulfi his promise. At length the Amero of Gozzata's under Sa Malki Sheikhud-Mulki Pakhud-din salhed forth in a hostile manner against Dămaghaui in the year 778 H and having slam him, severed off the head and sent it to the court. This revolt was (thereby put down During the prosperous sovereignty of that good and gracious Emperor, his greatness and beneficence 'had seek an effect over ever quarter of his territories,' that no where any rebellion reared up its head, nor any body dared to be relieflus in any part, nor could anyone turn his feet from the path of bedience,' until this revolt of Dămaghân, and he queckly received the punishment for his perfidy.

The frontiers of the empire were secured by placing them inder great amins and the well-wishers of pure placed under great the Emperor. Thus, towards Hindustan, on the frontieu of Bengal, the fiels of Karla and Miniobs and the district of

Dalamau were conferred on Maliku sh Shark Mardan Daulat, who received the title of Nasiru-l Mulk The akta's of Oudh and Sandilah, and the district of Kol were placed under

<sup>&</sup>lt;sup>1</sup> The text is not least we have seen that Sharmondian Jun Rich was entitused with Shrend, and that in 778 H, on the death of Zafar Khan, Governor of Guzant, he was unceeded by its edders son. We find in C.H. II in \*Pray was loth to disturb Zafar Khan (\*Zafar Khan was aheady dead in 773 H), but demanded, of his depirty, Alu Rich was already dead in 773 H), but demanded, of his depirty, Alu Rich refusal Prizo disturbance and the additional contributions suggested by Damaghan, (in 'the Rich's refusal Prizo disturbed his matter Zafar Khan, and appointed Damaghan, Grewerre of Guzante.

<sup>2</sup> May reads المعران صوة لمعرات : Elliot (IV 13) New Amus Ranking (I. 334) Amus of Hundreds of Guzaint Firishta, ibid (456) "Amoor Judoeda"

<sup>3 &</sup>quot;Thereafter Guzarat was put under the control of Farhat-u-l Mulk, otherwise known as Maik Mufarrib Sultant." Ranking I. 334. Badaom (Bib. Ind. 25). Firishta, 456.

ورط و احسیان (؟ احشان ) MS. reads

<sup>،</sup> بنكار (؟ بنكر) مبلكت MS reads

nroperly circle, orbit. دانوة : دانوة اطاعت ٩

<sup>7</sup> MH. reads ......

Jaunpur and Zāfrābād was given to Malik

Bahruz Sultāni. The fief of Bihar to Malik Bir Afgan. These amirs showed no laxity in coercing the insurgents of

those parts and confiscating the territories on the frontiers. Thus the Sultan had

no anxiety for the control and safety

of these parts of his dominion. But to-

wards Khorassan there was no umir

Sultan) was therefore compelled to sum-

mon Maliku-sh Shark Malik Nasiruddin

from the fief of Karah and Mahoba, and

to send him to Multan in order to put

down the disturbance created by accursed

bestowed upon Mahku-sh Shark Malik

Shamsuddin Sulaiman, son of Malik Mar-

dan Daulat.1 After the assassination of

Damachani, Guzarat was given over to Malik Mufarrih Sultani who received the

Hisamu-l Mulk and Malik Hisamu-ddin Nawa. The fief of

Frontier of Bengal placed under Mardan Daulat: Oudh etc., upon Hisamu-l Mulk.

Jaunpur to Bahruz Sultani. Bihar to Bir Afgán.

capable of withstanding the attacks of the Mughals He (the Nastru-d-d din plac-

ed in charge of Multan agamst Mughal inroads

of this quarter and its dependencies were placed under him. and the fief of Hindustan, such as Karah and Mahoba were Kara and Mahoba

placed under Sularman, son of Mardan Daulat

title of Farhatu-l Mulk.

\*\* In the year 779 H. (1377-78 A.D.) the Sultan rode towards Etawah and Akhal 2 Ran Sabir Sult in to Etawah and Adharan the muguddams of Etawah, and Akhal. who (formerly) having rebelled against

(Mughals) and punish them for their assaults. The iktās

the Sultan had been worsted, were (now) placed in safety,3 and were taken to Delhi with their wives, children, horse, and attendants. The foundation of fortresses were laid at Akmal and Tablahi 4 At these places,5 Malik Zādā Firoz, son of Malik Taju-d-din was left with a large following and . . . . 6 amirs Having conferred the iktas of Firozpur Tablahi and Akhal on Tajuddin and Malik Afgan respectively, the Sultan found his way to Delhi. In this year also Malik Hisamuddin Nawa,7 amir of Oudh, who was in attendence on the Sultan passed away, and Oudh was given over to Malik Saifuddin his eldest son \* \*

Badaoni reads "Malik Marwan,"

<sup>.</sup> Portion under asterisk is omitted in Elliot.

<sup>&</sup>lt;sup>2</sup> Badaoni, "Akchak": The reason of this expedition was a rebellion of the Zemindars of Etawah. Firishta.

<sup>.</sup> ترعیب و استظهار در آورده MS. reads . 4 Badaoni "Ratlāhi:" Firishta, "Tilāi".

Badaoni, "Firozpur and Batlahi,"

<sup>6</sup> MS illegible. 7 Badsoni, " Walik Nızamuddin ".

In the year 781 H. (1379 AD.) the Emperor marched towards Samana; on his reaching the

Governorship o f Oudh devolved upon Saifuddin. The Sultan to Namana, Am-Sahāranpur.

destination, Malik Kabūl Kurān Khwān, amir of the Privy council and the Chief of Samana presented offerings and the bala. Shahabad and Sultan showed him great favours Then, marching through Daulatabad. Ambala, and Sahabad, he entered the hills of

Saharnpur 1 and levied tribute from the Rai of Sirmore and the Rais of the hills, and then took his way back to the capital Just at this time there came a report of the insurrection

of Khargu the Katehr chief Rebellion of Khargu. Khargu had invited Saivid Muhammad, the Katehr chuct. who held Badaun, and his brother Savad 'Alaud-din, to a feast at his house, and had them basely murdered. In 782 H., the Sultan proceeded against Katehr to take vengeance, and ravaged the country. The rebels of those parts were brought to punishment. Khargu made his escape towards the hills of Kumayun, the country of the Mahtas \* The Sultan also attacked them \*\* When the expedition came to a conclusio the Emperor placed Badaün under Malik Qabul Nawa, and made him the lord of Bed chamber: he (also) appointed Malik Khilab the Afgan at Sambhal for the chastisement (of the rebels) and holding firm Katchr \*\* The King, under the pretence of hunting, went annually to Kather, and that country became so devastated that nothing but game lived there

And in the year 784 H. (1382 A D) the Sultan built a fortress at Babah " which is seven Krohs Construction of a fortfrom Badaun, and gave it the name of 108s at Babuli. Prozpur, but the people called it Pur-1akhhirin. Afterwards, the Sultan grew weak and feeble, for his age was ninety years.

<sup>·</sup> MS. roads كوة باية ساندوز Rauking, 334, "Smittr hills: ' Firishta. "foot of the mis of Saharanpur " Elliot Saharanpur.

<sup>2</sup> Badauni gives 782 H ·

<sup>3</sup> MS reads : Elhot, Khargu . Ranking, "Khūkar" Firishta "Kharku or Khargoo": Badaoni, مكبو كبير ...

<sup>:</sup> مهتكانون «MS read 4

<sup>.</sup> سر بودة دار خاص 5

<sup>\*\*</sup> Portion under asterisk omitted in Elliot

<sup>6</sup> MS. reads, ببولي : Badaoni, "Bahuli," "possibly from the abundance there of the Acacia Arabica known as Babul-Ranking. Firishta. "Basuli" Elliot, "Beoli : "

The nonagenarian Sultan becomes a pup-

Khān-i-Jahan, 1 his Vizier, held the reins 2 (of the State) and brought under his sway the affairs of the State. The Firozshahi amirs and maliks were entirely subservient 3 to him. and those who opposed him (Vizier) were removed from the presence of the Sultan

pet in the hands of Khan-i-Jahan,

by all possible means; some were killed and others confined.4 At length, matters came to such a pass, that whatever did Khāni-Jahan say, the Sultan used to do. For this, the affairs of the state became slow-moving, and some loss occurred daily.

Once, Khān-i-Jahān represented to the Sultan how Prince Muhammad Khan having allied himself High-handedness of with some amirs and inaliks, such as, Khan-i-Jahan His Dariya Khan, son of Zafar Khan, amir dismissal,

of Guzarat, Malik Yakub Muhammad Haji, the master of the horse, Malik Raju, Malik Samauddin, and Malik Kamalu-d-din, the son of Malik' Ariz, the personal attendant of the Emperor, was after raising an insurrection. The Sultan had entrusted the affairs of the State upon Khan-1-Jahan, he, without thought and consideration is sucd the tirman that they should be taken into custody. When the prince heard this he omitted to pay his respects to the Sultan for sometime, and although the Vizier called for his presence the latter made excuses. Then, the Vizier, under the pretence of a balance of accounts kept, Dativa Khan, son of Zafar Khan, amir of Mahoba, confined in his house. This alarmed the prince still more, (and one day in private came to the Sultan's presence and he made a statement of his position to his father.6 The Sultan gave order for the removal of the Vizier and for the release of Dariya Khan. The prince having done this,7 Malik Ya'kub, master of the horse, (brought out) 8 all the horses and foot, and Malik Kutubuddin Faramuz.9 keeper of the elephants, (made ready) the elephants with their litters and armour,10 and took them to the prince. The

Jünän Shah: Briggs says Zafar Khān Farsy:

<sup>.</sup> مطلق العنان an error for مطلق الغنان 2

<sup>.</sup>an error for مستخرا او گشتنر 3

<sup>.</sup> دستگان an error for دستکی ه

<sup>5</sup> The bracketed portion is taken from Badaons. Firishta relates that the prince entered into a close palanquin, and was carried to the seraglio of the Emperor.

<sup>.</sup> بيش سلطان نيز او را فيول كودة بودند حاصل كودن نقوانسقند .MB. roads ه

<sup>.</sup> شاعر ادة محمد خان ساخته , MS. reads

<sup>8</sup> The predicate is missing in the text. " Elliot " Faramuz ...

<sup>10 ....</sup> Kustupan, Gustupan, properly, horse armour.

Firozi slaves and amirs, and the mass of the people also joined the prince.

In the month of Rajab, 789 H. (July-Aug. 1387 A.D.), with full preparations, the prince set out

March of Prince late one night, with a large following, to Muhammad against Khan-i-Jahan and the latter a flight.

Darivā Khān out of prison and put him

Dariya Khan out of prison and put him to death, and collecting a few chosen followers entered into conflict with the prince.

At length, losing the power (of opposition) he fell back to his house, and got a wound while entering it. Unable to make further resistance, he came out (of the house) by another route with a few adherents and escaped towards Meunt, and sought

shelter from Koki Chauhan at Mahiri.

The prince plundered the Vizier's house of all its gold and
The Vizier's follow.

wealth, and arms, horses, and effects; he
emput to death and
then returned to the court. (Next) he
horses plantaged and Mahi Bliziad Fali Khin, Malik

his effects plundered caused Malik Bilizād Falh Khān, Malik Imadu-daulat, Malik Shamsuddīn . . 2, and Malik Musairah who had saled with Khān-t-Jahān to be brought to the court and executed.

When these transactions were reported to the Emperor, Reme of Govt, pass. he resigned the roins of government into exto Multamment shan who takes the hands of the prime, and the amins and malliss and the slave. of Sultran title of Namaddin Firse and the people in general ralliad

tide of Nasruddin Firoz and the people in general rallied Muh. Shah round the prince The Sultan grew old and feeble, so of necessity he, at length, made over to the prince the paraphenialla of sovereignty, with

all the horses, elephants, effects, and equipage. He gave hum the title of Nasirud-lon Muhammad Shah, and hetook himself to the service of God. In every Jami's mosque throughout the dominons, the Khulbah was read in the names of the two sovereigns, and in the month of Shabaha, 789 H. (Aug 1387 A.D.) Muhammad Shah ascended the throne in the palace of Jahira numid.

The titles and offices, the fiels and allowances, pensions conformed of titles, and whatever had been enjoyed etc. on Amics.

by any one during the previous reign of the horse was made Sikandar Khan<sup>2</sup> and was nominated to the charge of the government of Guzarta \*\* Malik Rāju

<sup>1</sup> Firishts, "having first put to death Zatar Khan".

<sup>.</sup> ملك شبس الدس برمان MS. reads.

<sup>3</sup> MS, reads, اسكندر خان Badaoni and Elliot, "Sikandar"

<sup>\*\*</sup> Portion under asterisk omitted in Elliot

became Mubăriz Khān; Kamāl 'Amr (?) 1 became Dastur Khān: Malik Samā' became Aminu-l-Mulk; Malik Samā'uddīn and Kamaluddin obtained places near the person of the King and became the recipient of his favour; the duties of the Diwan were conferred on them. \*\* Malik Ya'kub Sikandar

Khān-i-Jahan was seized and put to death

Khan was sent with an army to Mahari against Khān-i-Jahan. When this force reached Mahari, the accursed Koks bound Khān-i-Jahān, and delivered him

up to Sikandar Khan, who put him to death, and having sent his head to the court, went his way to Guzarat. The prince then engaged himself to the duties of government.

Mubammad Shab on husting expedition at Sumür hills

In the month of Zilhijjah,2 of the year,3 Muhammad Shah marched towards the Sirmur hills and there spent two months, hunting rhinoceros and elk. While thus engaged. advices were received relating to the perfidious assassination of Sikandar Khān at the hands of Malik Mufarrih, Amir of

Assassinution of Sikandar Khān

Kambayat and the Amirs-sadah of Guzarat. The army that had set out with the deceased, some of them wounded and some despoiled, returned to Delhi with Saivid Salar On this information, Prince Muhammad Khan became thoughtful and anxious, and hastened to the capital But as he was inexperienced, the Prince gave himself up to enjoyment and luxury, and took no thought for avenging

Sikandar Khan b. For five months the Incompetence οf (old) rules and arrangements kept the Muhammad and the affairs of the state agoing, but at length Kingdom in disorder the kingdom fell into great disorder

The Firoz Shahi slaves who had taken up their habitations in Delhi and Firozabad, stirred up by the opposition shown by Malik Samau-d-din and Malik Kamaluddin 6, set themselves up in opposition to the Prince and joined themselves to Firoz

<sup>.</sup> كمال عمو 1

<sup>&</sup>lt;sup>2</sup> Elhot, Zılkaāda.

<sup>&</sup>lt;sup>3</sup> Firishta and Badsoni give 790 H. 4 Badaoni writes "Sipah-Salar ".

<sup>.</sup> و کشته شدن مکندر خان سهل بنداشت . Text reads

<sup>.</sup> فكر انفقام سكندر خان نكردة ,Badaoni (ibid. 254) writes

<sup>&</sup>lt;sup>6</sup> Firishta (460) writes Bahauddin and Kāmaluddin, cousins of Prince Muhammad. Thus, he says, the nobles seeing the affairs in them united themselves with Princes Bahauddin, etc., for the purpose of subverting his authority. Badaoni's version is different. He writes thus "the Sultan's '(Muh. Shah) soldiery by reason of their enmity and jealousy against Samauddin and Kamaluddin, who were the proteges of Muhammad Shah, set themselves in opposition to them, etc."

Shah. When the Primce came to know of these fucts, he sent out Malik Zahruddin Libiort to parley with the slaves, who had assembled in the Maidān. They, however, pelted him with stones, and thereby wounding Zahruddin made a display of their force and rejected all overtures for peace. The Malik, thus wounded, was obliged to retire near the prince, who was prepared for action. The Prince advanced with his horse, foot and elephants to the Maidān against the rebals; and when he fell upon them, they 6de to the palsee and sought retuge with

Muhammad march against insurgents, his success

the old Sultan. For a couple of days fighting went on, but on the third day when the prince was prepared to renew the contest, the insurgents brought out

the old Sultan from the palace. When the soldiers and elephantdrivers set eyes upon their former master they described the prince and came over to the Sultan? Finding that he was unable to continue the struggle further

Fight of Muhammul Shah to Strmut. the prince with a small following fled towards the Strmut hills. The camp of the Prince and those of his followers were put to plunder. The city now presented a secue of great violence.

Tranquility being restored, the old Sultan appointed Prince Tughhaq Shah, the son of his (elder) son Eath Khan, his henr-apparent, and consigned to him the affairs of government. In the meantame. Amir Hasan Ahmud Hsbul 3-80-in law of the

Sultan who had separated from the party of the prime, was made prisoned by the Hindu amurs, and taken to Tuglilay Shai, who had him executed before the deltail; orders were exactly Amurs Sadalo of Samunal, directing them to sever Ghalb Kun's the anni, and bring him to the court. When he was brought in the primes such him away a prisonet to Bilair and conferred Samana upon Malik Sultan Shah. On the 18th Ramazan \* 700 H., (Nov. 1388 A D) Sultan From the

Death of Sultan Fnoz, His appreciation

Death of Sultan his tomb be sanctified, died, worn out with weakness. It has been recorded by veracious historians and truthful chronic

lers of venerable age that since the time of Nasiruddin, son of late Suiten Shamsu-d-din Altamash, who was a second Naushirwan b there has been no king (in Delhi) so just, and kind, so

چون لشکرو پیل بانان همه بروردهٔ سلطان مودند بیکنا رگی-Tank Tonk و برن بیکنا رگی تصدیر برستند. از خانب شاهرادهٔ روی تادیهٔ و سلطان مرحوم بیوستند

<sup>2</sup> Badaoni, Mir Hasan : Firishta, 'Amir Saiyid Hussain.'

Blhot, 'Alı Khan: Badaoni, (ihalib Khan
 Badaoni, 16th Ramazan, 790 H. Friehta, 3rd Remazan.

The name of a King of Persia, called also Khosrou Naushirwan, in whose reign Mahomet was born in 578 A.D.

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courteous and God-fearing, or such a builder, like the late Firoz Shah, may his tomb be blessed and may he dwell in paradise! His bravery and justice won for him the hearts of his subjects. If any indigent traveller by the decree of God. died on the way, the feudal chiefs, the holders of offices, and the muowddams of the vicinity, having called together the Imams, the Kazis, and all Musalmans, examined the corpse. and drew up a report under the Kazi's seal, certifying that no trace of any wound was discernible on the body, and after that they buried it. Thus, by enquiries of the Kazis, all the injunctions of the Sherra (law) were carried to the letter, and on all sides it was in no way possible that during the reign of this sovereign, any strong man could tyrannise over the weak.\*\*

#### COUPLET

After many a revolution of the trying sphere Died he but his fustice remained!

Almighty God immersed this gentle, beneficient and just king in the divine compassion, and gave him a place in the propinguity of His mercy ' The rule of the late Sultan Firoz Shall may his tomb be sanctified, lasted for 38 years,1 and nine months The two words, "Wafat-1-Firoz" comprise the numerical letters of the date of his demise?

<sup>\*\*</sup> The text in Elliot here terminates Filled 37 years and 9 months Budaon, "38 years and some Phishta of latter opinion

<sup>.</sup> فارييغ وفات ملطان بهمدن دو لفظ افته ( ودات ) فيرو. بنده ۲۹۰ ° Tevt، ۲۹۰

## End of Prasenajit, King of Kosala

#### By NILMANI CHARBAVARTI

Bimbistra, King of Magadh and Prasenajit, King of Kosala, were contemporaries of Buddha and both were his great admirers. Bimbistra was put to death by starvation, by his son Ajátasátru. In several places in the Pall literature there are references to this patricidal crime. The earliest mention of it is to be found in the Samañāphalasuttants of the Dighani-Kaya, where Ajátasástru, during a visit to Buddha, confessed his crime before the teacher. The Ceylonese chronicle Mahavanjas also records the fact and desorribes the whole race as patricidal This is going too far. The later Pali commentaries record the details of the errime (see Sumangalavlišant) on the Samañāphalasuttanta). Historians of modern times have accepted the fact as true although the Jains records attempt to mitigate the crime (see Bhadraváhu's Kalpasūtra) and the Brahminic records are silent about it

The ancient records are all silent about the end of the other king. Professor Rhys Davids in his "Buddhist India" (page 4) wrote: "Three years afterwards. Pasenadi's son Vidudabha revolted against his father, who was then at Ulumba in the Sakya country. The latter fled to Rajagaha to ask Ajātasatru for aid; but was taken ill and died outside the city-gate." In a foot note on the same page the following references have been given: - Samyuttanikāya, vol. 1, 83; Jataka 2,403; 4,343 and Avadana sataka 51. But in none of these sources there is any reference to Vidudabha's rebellion and usurpation of the throne. In the commentary on the Dhammapada, verse 3, ch. IV, as well as in the Paccuppannavatthu of the Bhaddasālajātaka (Fausfoll 465) we get a detailed account of the end of Prasenajit. It must be said here that the commentaries, though they are of late origin, are all based on the Simhalese commentary, which is ascribed to Mahinda, the apostle of Ceylone, and some reliance can be placed on them. The story is briefly given below:-

Prasenajit, king of Koiala, appointed as his commander-innicit Bandhula, a Malla of Kusiakīs, Mu was his fellow-student at Taxila The latter was a just man and soon became very popular and powerful. He had a number of war-like sons. Once some officers of the court of justice taking bribe wrongly decided a suit. At this the aggireved party appealed to Bandhula who rightly judged the matter and the people praised him loudly. The King hearing the fact was highly pleased and appointed Bandhula as the administrator of Justice. The court officials were in great difficulty and began to conspire to bring about his ruin. They told the king that Bandhula was desirous of marping the throne. The king believing their worst contrived a plan for putting to death Bandhula and his sons. Being afraid of doing anything in the city for popular displeasure, he employed some men and raised a rebellion in the frontier of his Kingdom and sent Bandhula with his sons but down that The king also sent men with instructions to put Bandhula and his sons to death. On the arrival of the commander the pretended rebels field and when he was returning to the city he was murdered along with his sons. Afterwards Prasenajt came to know of Bandhula's innocence and was highly remorseful He appointed Dighakarāyana, Bandhula's nephew, his commander-in-chief

It may be said here in passing that in the Arthaviatra of Kantilya (Bk. V. ch. V) we come across a teacher named Dirghacfirkyana. Phonetically Pali Dighakiniayana and Sanskrit Dirghacfirkyana are non and the same and both were politicians. In the Kamasütra of Vatasyana we come across a teacher named Cateyana who wrote a treatise on the Kamasütra (Kamasütra 1, 1. 12). His opinion also has been quoted as an authority in the Kamasütra 1, 4.20 and 1, 6.22. From 1,5.22 it appears that he was a political intriguer From the above facts it appears quite probable that three persons were one and the same and flourished towards the end of the 6th or the beginning of the 5th century B.C.

Digha-Karavana was a shrewd man. He at once began to devise plan for wreaking Vengeance on Prasenaut for the murder of his uncle and his sons. Once Buddha was sojourning in a small town of the Sakyas, named Ulumpa. King Prascnafit went there and encamped near the residence of Buddha and went to pay a visit to him While entering the monastery, the King in order to show humility handed over his crown, sword and other insignia of royalty to Digha-Karayana and alone entered into the chamber of Buddha. Karavana, who evidently by that time had the whole army within his control, taking advantage of that crowned Virulhaka as king and went to Sravasti, leaving a horse and an attendant woman for the deposed king. When Prasenajit came out he found none and learning everything from the woman proceeded to Rajagrha to ask for help from Ajātasatru his nephew and son-in-law. He arrived there late in the evening, found the city-gate closed, was taken ill and died in the night, in a hut outside the gate.

It is to be noted here that in the Samyuttanikāya (II,89, p 118, P T.S. edition) we find that King Pasenadi (Praesali) paid a visit to Buddha accompanied by Digha kārāyana, at a snall town of the Sakyas, named Medaļumps. As in the story given above the King made over the insignio of royalty to

Kārāyaņa and entered alone into Buddha's chamber But the latter part of the story, i.e., the overthrow of the king by Kārayaṇa is not to be found in it. In the Avadána sataka (vol. II, p. 114) Drīgha Cārāyaṇa has been mentioned as charioteer of Prasenaite.

Regarding the remarks of Prof. Rhys Davids quoted above, it may be said, that it is quite probable that Virulhaka did not entertain good feelings towards his father because he sent away Virulhaka and his mother, when he came to know that the lady was an illegitimate daughter of her father and only accepted them to his favour, through the intervention of Buddha (see the comm referred to above). Further the usurpation of Ajstasatru might have instigated him to rebel against his father, but the records do not show this

# Ghotakamukha a predecessor of Kautilya and Vätsäyana

#### By NILMANI CHARBAVARTTI

Both Kautilya and Vătasyana mention as their prodecessor (Shahanudha and Cariyana or Dirghasdriyana. In my paper on "The end of Prasenajit, king of kośala" I have pointed out that Cariyana was a contemporary and an officer of Prasenajit and the latter was overthrown by the forner. In the present paper I propose to say something about Ghotakamukha. Ghotakamukha has been only once quoted in the Kautilya Arthushastra (Bi. V. Ch. V). Bittom that quotation nothing can be ascertained except that he was a predecessor of Kautilya and that he probably wrote a treats-co no politics. He has been, however, largoly referred to in the Kāmasūtra of Vatsiyana. In the introductory portion of the work (Ch.-1, 4) it has been said that Ghotakarukha wrote a treats-co on Kanyāsamprayuktakam or 'union with a gul'.

He has been quoted six times in the body of the book :--

- गियाकायाः दुव्हिता वा परिचारिका वाऽनन्यपूर्व्या सप्तमौति घोटकस्थः । कामसूच 1.5.24.
  - A daughter of a harlot or an attendant woman who has not associated with any one previously, as the seventh', thus says Ghotakamukha:—
- 2. यां उटहीला क्रतिनमात्मानं मन्त्रेत न च समानैनिन्द्रेत तस्यां प्रदर्शित्रार्थः । (Ibid., III. 1. 3).
  - 'Taking whom one would consider onesalf as having accomplished his purpose, and would not be blamed by his equals:—
  - One should associate with such an one (girl)', thus says Ghotakamukha.
  - 3. न सबृष्ण्या केवलमानुवयेति घोटकसुखः। (Ibid., III.
    - 'And not at will with any woman'-so says Ghotakamukha.
- चर्चा एव चि कन्ताः प्रवृत्तेय प्रमुख्यमानं वचनं विषष्टले न तु जविमकामि वाचं वदनौति चोटकसुखः। (Ibid., III. 2. 7).

- All girls endure words uttered by a man but do not utter even the smallest word in the middleso savs Ghotakamukha
- 5. व्यन्यामपि वाच्यां स्पृष्टवेद वालाया(?)मेवं सति धक्कीधिशमे संबननं प्रताध्यमिति घोटकसखः। III. 3. 4.
  - 'One may covet any other girl who is an outsider (outside a circle of relation) and thus on the attainment of Dharma (Virtue) love is praiseworthy '-so says Ghotakamukha.
- 6. दूरमतभावोऽपि चि कन्यास न निर्व्वदेन सिध्यतीति चोटकमखः। III. 4. 29.
  - ' One who has gone far in his affection does not succeed with girls through indifference '-so says Ghotakamukha

From the above quotations we can have some idea about the views of Ghotakamukha. He has given preference to a girl or to a woman who is not claimed by any one for the purpose of love-making. He has also considered marriage to be Dharma

In the Majjhunanikāya of the Pāh Sattapıtaka there is a sutta named Chotamukha-sutta (M. N. Vol. II. p. 157). which contains a conversation between a Brahmana named Ghotamukha and a Buddhist moul named Udena Ghotamukha who was probably an inhabitant of the Anga country and used to receive daily five hundred kuhānanas from the king of Anga came to Benares on some business and there met Udena. In the course of a conversation between the two. Udena said that there were four classes of men, viz. (1) those who subject their ownselves to sufferings, (2) those who cause sufferings to others, (3) those who subject themselves to sufferings and cause trouble to others and (4) those who do not cause sufferings to themselves not to others. And Udena asked Chotamukha which of these classes of men would please him Ghotamukha said that he would like those men who would not subject themselves to sufferings nor would cause sufferings to others

A careful comparison of the view of Ghotamukha of the Ghotamukhasutta with the views of Ghotakamukha quoted in the Kamasastra of Vatsayana would show that there is similarity between the two. The Sutra III 1. 3. quoted above as well as the general tone of the Sütras 1, 3 and 5 represent the views of one who would not bring about sufferings on himself nor cause trouble to others. I have no hesitation in identifying Ghotakamukha, quoted by Vātsāyana as well as Kautilya with Chotamukha of the Ghotamukha suttanta.

The above identification also helps us in assertaining the time of Ghoţakamukha or Ghoṭamukha. It has been said in the sutta that being pleased with the conversation with Udena (Hoṭamukha wanted to take refuge (sarana) with Udena (Hoṭamukha wanted to take refuge (sarana) with Udena to the the Interest of Interest of

From the above facts it is clear that Ghotamukha lived after the death of Buddha and at a time when Pataliputra grew in importance. During the last journey of Buddha from Rājagrha to Kusīnārā, Ajātasatru, king of Magadha was building a fortress at the site of Pataliputra to ward off an invasion of the Vajjus who occupied the territory to the north of the Ganges. Sometime after during the rule of a successor of Aintasatru the capital was transferred from Raiagrha to Pataliputra about the 4th century B (! This gives us one limit for the date of Ghotamukha. Regarding the other limit, it may be said that on the railings of the Bharhut Stupa amongst the titles of donors we find the expression Pancanekavika which shows that the five nikawas of the Pali canon were well-known at that time. Portions of the railings of the Bharhut Stupa may be referred to the middle of the 3rd century B.C. and so Ghotakamukha or Ghotamukha must have flourished between the 4th and the 3rd century B.C.

## The Beginnings of Suketri Dynasty

By S. R. SHARMA

Cunningham placed the beginning of the present reigning house of Suket in the latter part of the eighth century 1. Messrs. Vogel and Hutchinson followed him closely and assigned 765 A D. as the date of the establishment of the present house under Vir Sen. But the tradition has it that these Sens migrated to the Punjab hills in the beginning of the thirteenth century. Of course the tradition may be wrong, but it is very seldom that it postdates any events. Raja Jai Chand with whom the present dynasty seeks to connect itself did not after all play any very heroic part in the history of India that a Raiput family should be anxious to connect itself with his descendants. Still less could much credit accrue to the house by being connected with these thrice expelled descendants of the unfortunate Raia. Unless, therefore, some very compelling reasons can be advanced against the tradition, we should rather be inclined to accept it.

Let us therefore study Cunningham's thesis as elaborated by his followers. To begin with, from Vir Sen to Arjun Sen there were thirty-five reigns. Ariun Sen's date has been. pretty conclusively, fixed at about 1550 A D. Now this would give about 350 years to 35 reigns giving an average of ten years. It is claimed that as the average for the latter half of the dynasty's history (from Arjun Sen 1550 A D. to Uggar Sen 1876 A.D.) works out at 30 years a reign, we should allow a longer period for the earlier half as well. The argument is rather inconclusive in view of the fact that the average of 31 years gets reduced to 24 years if we include the four Rajas bringing the list up to the death of Raja Bhim Sen in 1919 A.D.

But Cunningham relied upon even more broken reeds His one strong point at the time seemed to be the Nermad inscription which he dated in the year 1170 A D. He identified Samudar Sen of this inscription with Raja Samudar Sen of Mandi and could thus point out one fixed date in the early history of the dynasty. But unfortunately Fleet's rendering of the inscription 2 has shattered it all. Cunningham read into the Varuna Sena, Sanjya Sen, and Ravi Sen of the inscription three Rajas of the Suketr Bansawali whose names stand poles apart from those mentioned in the inscription. Fleet flatly refused to accept this equation and on other grounds has placed

Archmological Survey Report, Vol. XIV, p. 123. <sup>2</sup> Corp. Inscripe. Indi., Vol. III, p. 286 to 291.

the record in the seventh century AD. As the names of the three Rajas mentioned in the inscription have nothing in common with those mentioned in the Bansavali. It would be too great a strain on our credulity to ask us to believe—even on Cunning—ham's authority—that Samudar Sen of the inscription has anything to do with Raja Samudar Sen of Suket. Thus here again Cunningham's argument totally fails.

Some supplementary evidence has been trumpeted up to bolster up Cunningham's thesis. Certain references to Suket in the early histories of the neighbouring hill states have been fished up to prove that the history of Suket carries us to very early times. Such are the references in the Chamba annals to Mushan Varman's taking refuge with a Raja of Suket about 800 A.D.1, in the Bilaspur chronicles to Raja Bir Chand's conquest of Keonthal about 743 A D , in the history of Kullo to its conquest in the reign of Bhunal and his successors by Rajas of Suket. in the annals of Sirmur to Raja Mahi Parkash's demanding the daughter of Raia Rupchand of Keonthal in marriage about 1108-1117 A.D 2 We fad to find in these references anything to prove that the present Sen dynasty of Suket goes back to the times spoken of in the chromoles of these neighbouring States Of course they prove that there were, in existence, at these early times the States of Suket and Keonthal. The traditional history of the present Suketor dynasty does not claim that Vir Sen or Giri Sen founded new states when they fled from Rupar, they became, it is asserted, masters of the states of Suket and Keonthal 11 is probable that these states had become political entities much before their arrival on the scene. The evidence from the Sirmur chronicles throws a flood of welcome light on the question The name of the Raja of Keonthal whose daughter's hand was demanded in marriage by Raja Mahi Parkash is set down as Now Giri Sen's descendants always carried the Rupchand suffix Sen with their name and it is clear that reference is made here to some earlier reigning house of keonthal

Thus we find that all that can be urged against the accept ance of the traditional account falls to the ground The Nirmad unscription, references in the annals of other neighbouring state all prove useless in our scarch for some light on the question. There simply remains the problem of squeezing in fifty reigns of the Sukclar Rajas in some TlS years. An average reign of fourteen years over a period of seven long centuries is inherently not improbable. Furthermore the number is reduced to forty Rajas for the same period if we consider the Rajas of Mandi. This would give about eighteen years as the average reign of the Mandi Rajas. There is no reason why we should be actious to stretch a point and insist that the tradi-

Chamba Gazetteer, p. 72.
Sirmur Gazetteer, p. 9 and 10.

tional account is wrong; because, forsooth, the average of fourteen to eighteen years does not seem convincing to us. It does not carry us very far to say that if we accept the traditional date, the average reign of the early Rajas would be rather low when compared with the later ones. The early Raiss of Suket must have been small chieftains whose lives were spent in warfare with their own subjects if not with their neighbours. From Bir Sen to Bahu Sen the nine reigns, we know from the Mandi Bansavali, did not occupy more than 116 years, thus giving an average of less than thirteen years The average is again confirmed if we work on the Mandi Bansavali to Jai Sen's times when we find 17 reigns occupying 185 years No reason has so far been advanced to prove that these early rulers could not have ruled for such short periods. Our only guide therefore must be the tradition and in this case when it has nothing to gain by postdating the event, we are constrained to admit that it must be right. The beginning of the Suketar dynasty therefore must be put in the thirteenth century A.D

# On the Hindu names for the rectilinear geometrical figures

By BIRRUTIBHUSAN DATTA

In the Hindu mathematical treatises of later times, we discern two different systems of nomenclature for the rectilinear geometrical figures. In one system the naming is accordmg to the number of "sides" of the figures, e.g. tri-bhuja (literally meaning "tri-lateral"), catur-bhuja ("quadri-lateral"), pañca-bhuja ("penta-lateral") sada-bhuja ("hexa-lateral"), etc. In the other, the naming is based on the number of "angles" or "corners" in the figures, e.g. tri-kona (meaning hterally "triangle"), catus-kona ("quadrangle"), pañca-kona ("penta-gon"), sat-kona ("hexa-gon"), etc We also commonly meet with such names as tryasra for the triangle, caturaira or caturaera for the quadrilateral, pañcaera for the pentagon, sadaśra for the hexagon, and so on. The true radical meaning of these names will be found later on. The present note aims primarily at examining the earlier Hindu names for the rectilinear geometrical figures and to determine, as far as possible, the oldest Hindu system of nomenclature. It is found that from the earliest times, the Hindus have followed the usage of naming the rectilinear figures according to the number of sides as well as of angles, and that the anglenomenclature is the older with them Amongst the Greeks. Euclid (c. 325 B.C.) in the earlier parts of his Elements divides the rectilinear figures according to the number of their sides (cf. tri-pleuron, tetra-pleuron, poly-pleuron), but later on he introduces the angle-nomenclature also (cf. tri-gonon, tetra-gonon). The Romans simply followed the Greek usage. The early Egyptians together with the Babylonians, Hebrews, and Arabs are said to have followed only the side-nomenclature.2

The oldest Hindu names for the rectilinear geometrical figures were formed by the juxtaposition of the number names with srakti. The word srakti means the "angle" or "corner".

<sup>1</sup> J. Tropfke, Geschichte der Elementar-Mathematik, 1923, Bd. IV, pp.

<sup>60-61.</sup>This information has been given to the writer in a personal letter by Dr. Solomon Ganda of New York and in fact, this note has grown out of a reply to an enquiry by him for the older and geauine Hindu usage in naming the rectlinest geometrical figures.

This meaning is given in all the known Sanskrit dictionaries. Professor E. W. Hopkins conjectures that reals means the "spear" (vide Journ. Amer. Oreat. Soc., vol. 15, 1985), D. 264 (n). The world

so the name outsharaki literally means the "quadrangle". This name occurs in the Vājanangi sankhiā; Taitlaraki Satespatha Brāhmana, "apastamha Krauta-sitra, "Buddāgana Subta-sitra," and other works, the satilises of which was composed before 3000 B.C. Similarly we have in the Ryreda, "the term nautaraki" ireferring to the "inie corners" of the heaven. These names have long went out of use and are not met with in later works.

and Mo-Another kind of names consists of compounds ending with Another kind of names consists of compounds ending with Another kind of a row. There is a rule of the celebrated grassmarian Pānini (c. 700 B.C.) that at the end of a compound, or names to afra or awar. But it seems that that rule has not been always followed in practice. For compound names ending with siris, non-ha strinsir, cauratura, and safetio cocurs as early as in the Repedit (before 3000 B.C.). The name arifatir occurs in several carly Stankiti works, Sumilar names are conssionally met with even in later Hindu mathematical and other treatures. In manes containing siris or awar loss as trynsir, caluratura or caluratura, etc., are more common in the Sankiti and kindred literatures of India, modern as well as old. But they were not however introduced before the time of the Straud-sirium (c. 1500 -2000 B.C.).

Competent authorities have differed as regards the literal significance of the compound names ending with aśri, aśra or arra According to Amarasimhe (a 350 A D.). Bhattotpala (966) and Halsyudha (c. 1200) arra means the angle

rakti has been emplo yed in the Bipsela (vii. 18-17), Atherosceda (vi. 11, 22, viii. 6 4, 7, 8), Satapatha Brāhmana (n. 6, 1, 36; ii. 5, 2, 8); Chāndogya Upaninad (vii. 5, 1), Apastamba Srauta-sitra (vii. 16, 6, 8 x 6 2, 8; xvii. 12—16) and Baudhöyono Sülha-sitra (r. 72, 84, 101; ii. 25, 72; iii. 73, 77).

<sup>1</sup> xxxvii 20. 2 vi 6 10.1.

<sup>3</sup>n. 6 1. 10, vn. 1 2 29; 3 3 26; 7 1 15, vn. 5 1. 23 4 vii. 5 1 5, 79, 83. 6 viii 76. 12. 7 Panni's Grammur, v. 4. 120. 8 1. 152. 2 (cataotri); vi. 17, 10

<sup>(</sup>éatāérs).

9 Vide Aitareya Brāhmana (ii. 1); Satapatha Brāhmana (iii. 6, 4-27, 7, 1, 28; v. 2-1, 5), Apastamba Srauta-sūtra (vii. 3-2; xvi. 4-10). The term naužėri occurs in this latter work (xvi. 4-11)

<sup>&</sup>quot;For instances we find in the Prical Scalabilit the use of regularity (Lv. 201 Laxus, S. ocasifer, ILu. 29), separation [18], in the draphdaring the use of sequent (i) and decidenties (ii) 3) and in the Subliman the use of sequent (ii) and decidenties (iii) 3) and in the Subliman chalarity continues the second of decidenties (iv). Bhattorpals has quoted passages for the term sequent (iii) and the second of the second o

<sup>11</sup> For instance the name tryarra occurs in the Apastamba Srauta-silra, xx. 12; catteraira in Apastamba Srauta-silra, xvi 4. 7, Katyöyana Srauta-silra, vvii. 5, 28; xvi. 2, 2, 4, 7, 5, 6; xvii, 5, 3; Kautika silra of Atharouseda, Lxxxv. 137.

<sup>12</sup> Vide Amarakosa on "Kons."

See his commentary on Brhat Sainhita, pp. 680, 760, 761, 764.
 Abhidānaratnamāla, ed Aufrecht, 1v 4. 2.

according to Hemacandra (b 1088),1 it means the "angle of a room etc.", whereas in the opinion of Sayana (c. 1325) 2 it means the "edge". Amongst the modern Indologists, Grassmann 8 renders asri by "sharp edge" (scharfe kanten), Aufrecht by "corner", Macdonell' by "edge". According to Monier Williams, afrt means "the sharp side of anything", "corner", "angle (of a room or house)" or "edge (of a sword)". Rhys Davids 7 observes that Sanskrit word asri or asra is equivalent to Palı assa meaning "corner, point"; Greek αγροζ, αγριζ and οξυζ, sharp, Latin acer, sharp. It is found on closer observation, that the names ending with akri have never been employed in connection with plane rectilinear figures, but they always refer to solid bodies such as sacrificial post (yupa), pillar, or an instrument (spear). On the other hand the use of the names ending with asra or asra has always remained restricted to plane rectilinear figures. Asn truly signifies the "edge": with reference to "angle", it means the "dihedral angle", but not the solid angle at the point of intersection of more than two edges. For Arvabhata (499 A.D.) calls the triangular pyramid by the name (ghana) sadaśri and the cube by dvadasasri 8 This latter name has been restated by Sripati (1039 A.D.) 9 In these instances airi certainly refers to the "edge" The true significance is clearly in evidence in a certain passage in the Arathasastra of Kautilya (c 350) B.('.). In describing the mauspicious crystals of valuable stones. Kautilya has employed the two appellations nastakona and urakri to the same instance.10 So the word air implies something different from "kona" ("pointed corner" or the "solid angle" of the prism) and indeed, it means the "edge" of the prism.11 Similarly in a certain passage of the Apastamba Sranta-sūtra 12, asrı undoubtedly refers to the edge. The description of a cube, found in ancient Jaina canonical works 18 leaves, however, absolutely no doubt about the true significance of the word asri. There the cube has been correctly described as sattala ("sıx-faced"), dvādašāšrika ("twelve-

Abhidhanacintamani, "grhāde kona."

<sup>2</sup> Vide Sayana's commontary on the Rgueda (iv. 22. 2; vi. 17. 10)

<sup>3</sup> H. Grassmann, Worterbuch zum Rigveda, Leipzig, 1873, p 139.

<sup>4</sup> Vide his edition of Abhidhanaratnamala of Halayudha-

<sup>5</sup> Practical Sanskrit Dictionary. 6 Sanskrit-English Dictionary, new edition by Leumann and

<sup>7</sup> Rhys Davids and Steele, Pali-English Dictionary on "assa". According to Rhys Davids it also means the "edge"; compare "ansi". 8 Aryabhatiya, is. 3, 6.

<sup>9</sup> Siddhanta fekhara, xiii.

<sup>10</sup> Arthafastra, ed. by Shamasastri with English translation, 11.

<sup>11</sup> Shāmāšēstrī wrongly translates nivašri as "uneven".

<sup>18</sup> xvi. 4, 7-11.

<sup>13</sup> Annyogadvārastītra, Stitra 133; Jambudvipa prajšapti, Stitra 54.

edged") and astakarnika ("eight-cornered"). However, since the names containing the word asrs are not used in connection with the rectilinear figures, any further discussion of them will be beyond the scope of this paper.

In Sanskrit lexicons, the meaning of the word aira or asra is stated to be "corner" or "angle." But it is found that the compound names ending with asra or asra do not always possess a reference to the "angles" of the figure For instance. caturaira or caturaira does not always mean literally the "quadrangle." In the Suryaprajuapti (c. 500 BC).1 are found the names of four different figures riz, sama-caturasra. visama-caturasra, sama-catuskona and visama-catuskona. In these cases caturasra certainly means the "quadrilateral." as catuskona means the "quadrangle". Again in stating the tradition about the Uttaravedi, Baudhayana savs 2: "It has the measure of a sămyă and is four-cornered (catuhsrakti)" He then adds 3: "It is a square (samu-caturasra) as no particular rule is given." In these passages a distinction appears to have been implied between catuhsrakte and samacaturasra. This distinction has been clearly brought out in a passage in the Atharvaveda-Parisista which states, in connection with the construction of a certain sacrificial altar, that it "should be measured with the rope equally four-sided (caturakram) and four-angled (catuskonum)".4

Amongst the later commentators, in the opinion of Ganesa (1545), tryasra literally means the "triangle," caturasra the "quadrangle," puñcāira the "pentagon," and so on; swhereas according to Mallmatha and Abhayadevasūri (c 1050),7 caturasra literally means the "quadrilateral" Thibaut

p 2/4) sammentariary active square ("graces quarras), evanna-ruturaria achieva square ("schiefs quadiat"), sama-actuskona seven parallelogram and evanna-cutuskonu-achieva parallelogram. 2 Baudhjana Sulba-silra, 178 The translation is by Thibaut, "the Sulva-sütras" (Journ Asiat Soc Beng., 1875), heresiter the reprints of these articles will be referred as Thibaut, Sulva-sutras

<sup>1</sup> Sütras 19, 25 According to Weber (Indusche Studien, vol. 10, p 274) samacaturnsra zeven square ("grades quadrat"), essama-

<sup>&</sup>lt;sup>3</sup> Bandhayana Sulba-sütra, 1 80

<sup>\*</sup> The Pariérstas of the Atharvaveda, ed G. M Bolling and J. V Negelein, vol. 1, Leipzig, 1909, xxx 1, 5: "Caturaéram catuskonam tulyam sütrena dharayet

tulyan sutrous disrayet

Commentary on Bhāskara's Lidwali, section on plane figures.

Cf. H. T Colebrooke, Algebra with arithmetic and measuration from the
Sanskrit of Brahmeyupta and Bhāskara, London, 1817, p. 58 fn. Hereafter this book will be referred as Colebrooke, Hindu Algebra 6 Commentary on Kälidäsa's Kumārasambhava, 1. 32. This passage

has been quoted in extense by Wober in support of his rendering caturara by "quadrilateral." (Ind. Studs, vol. 10, p. 274 fn)

Abhayadeva-surı observes. " तव समाः— अरीर्कवरीक्षप्रमावा-विसंगदिन्यवत्रवीऽवयो यसा तत् समयतुरसं, व्यवस्तितः चतुर्दिन्यभागोपस्रविताः प्ररीराज्यवासात्व सर्वे प्रथमवाः प्ररीरक्षच्योक्षप्रमायास्त्रिचारियो सस्य न त

is responsible for the opinion that in sema-contavaran, which is the term commonly employed in the Subla-situate to denote a square, the word soma refers to the equal length of the four sides and contravar implies that the four angles are right angles. A more plausible interpretation would be that some refers to the form or shape of the figure which is to be the same in every respect and caturara implying a quadrangle. It will then be consistent with the term dirpha-caturarar for the rectangle, which implies that the form of the caturarar is in this case dirable or 'lonish'. 2

The names of rectlinear figures containing the word kong caralgeloga, "corner"), such as trikong, cataloga, etc., meaning respectively the "trigonon," "tetringonon," etc., in general appears from the time of the Särgaprajianis (c. 500 B.C.)<sup>3</sup> and the Pariisstas of the Atharavaceda. The names containing the word bhuya (="aarm"), such as tribhiya, calurabhiya etc., meaning respectively "trilatoral", "quadritateral" etc., are employed by Aryabhata (499 A.D.)<sup>3</sup> and later writers in the most general sense. The word tribhiya cours once in the Atharavaceda (c. 3000 B.C.)<sup>5</sup> but it is doubtful whether in that instance, it means the "trilateral", as it usually does in later days.

In the Prikirta literatures of India, the names of rectilinear figures are found to be compounds of number names with the word aims. Thus in the Dhammansingan, a Pali work written n. c. 350 B.C., probably earlier, we find the name caterains for the square chalainsa for the hexagon, atthainsa for the octagon and soltamine for the hekkaidesagon. Similarly in Ardha

न्युनाधिकप्रभावस्त्रत्वं समयपुरसः "। Commentary on Sthänähga-स्पेरa, vi. 3 (Sübras 490-495).

<sup>1</sup> Thibaut, Sulva-sūtras, p. 7.

<sup>&</sup>lt;sup>2</sup> Compare '' खतुरके समें चेषं '' or '' खतुरके समे खिलस् '' occurring in Prithudakasvāmī's commentary on *Brāhma-sphuļa-ndāhānia*.

S Sütra 19; also 25. Euclid (c. 325 B.O.) uses requestor in the general sense to denote any triangle, whilst he restricts the use of rerejayorous to the square only (Tropike, Elementar-Mathematik, Bd IV, p.61).

<sup>4</sup> xxm. 1. 5; xxv. 1. 3, 6, 7, 11; xxx. 1. 5 There is mention of trikons, catakensa, pastcakmas, eathons, saptakons and astakons 5 Aryabhatiya, ii. 6, 11, 13.

<sup>&</sup>lt;sup>6</sup> For instance see Brāhmasphuja-siddhānia, xu 21, 27, 29; Mahā-siddhānia, xv. 96, 88, 79, 103. In the latter work for the first tame appear the names pañsabhāja and gajabhāja (xv. 102).

<sup>&</sup>lt;sup>8</sup> This work is available in the PAli original (ed. F. Müller, with its commentary dishabelini of Boddhagosa) is well as in English translation (C. A. F. Rhys Davids, Buddhist Psychology); vide §, 617. For the date of composition see the introduction to the English translation. The term ethiches cocurs as early as in the Dipha Niköya (ed. Rhys Davids and Carpenter, vol. 1, p. 78).

Magadhi, the triangle is called tamea, the square cuturamen, the hexagon chalamsa and the octagon atthamsa 1 The Prakrita word amsa is derived from the Sanskrit asra (or asra) or from amsa and means the "point, corner or edge" 2 The Sanskrit word amsa means "shoulder." "corner of a quadrangle" In the Srauta- and Sulba-sutras amad denotes the "corner", particularly the two eastern corners of the quadrangular sacrificial altar.

The classification of triangles according to the sides (sama-tribhuja, dvisama-tribhuja, visama-tribhuja-equilateral, isosceles, sealene triangles) is clearly in evidence in India in the beginning of the seventh century after (hrist 4 It probably began earlier. The classification according to the angles is absent here. Only the right-angled triangle is distinguished by the name jatya-tribhuja by Brahmagupta and others.5 The oblique triangles are grouped according as the perpendicular (lamba) from a vertex on the opposite side falls inside or outside the figure, viz antar-lumba (in-perpendicular) and bahirlamba (out-perpendicular) "

The classification of quadrilaterals according to the sides as well as the angles is more ancient and is found as early as in the Survapraviapti (c. 500 B (')? The side nomenclature appears still earlier in the Sulba-sutras (c 800 B (',) 5 samacaturasra (square) and dirgha-raturasra (rectangle). Often-times when there is no likelihood of an ambiguity, the prefix sama is deleted, so that only the term catarasra is used to denote the square The rectangle is also called andu-caturara This

<sup>1</sup> Vide Uttarādhyāyana-sātra (ed Charpentier), xxxvi. 22, 44-47; Jambudvipa-praynaptı-sütra, Sütra 54. Sütrakrtanga-sütra 11 1. 15, Bhagabati-siitra, Siitra 724-6, and osber works

<sup>2</sup> Pair-English Dictionary on "aysa", "aysi" and "aysa"; Abhidhāna-Rājendra on ansa Apastamba Scauta-siitra, vib 5, 20, xi, 4 13; xii, 17, 21, etc.;

Baudhāyana Sulba-sūtra, 1. 34, 40, 44, 111 70, 75 \* Brāhma-sphuta-sıddhänta, x11, 29, 33, 34.

The Sanskrit word jūtya means "noble," well horn," "geniums." Hence the implication underlying the name jūtya tribhuja "genume. Teenes are impression unmerging use name preparation for the right angled transfer scores to be that all other transfers can be supposed to be derived from it. Thus the right-angled variety is the only "genume" or "noble" kind of transfers. In fact, in activing the indeterminate problem of the solution of transfers in general Heshmaguptes. has always a method of solution by the juxtaposition of two right-angles transles. He has further extended this method to the solution of cortain quadrilaterals, particularly to the solution of convex quadrilaterals which now make the in man. laterals which now goes by his name 6 Colebrooke, Handu Algebra, p 58 in.

Sütras 9 and 25.

<sup>8</sup> Apastamba Nulba-sūtra: ii. 7, iii. 1; iv 6; v. 7; ix. 8 etc. Baudhāguna Sulba-sütra i 36, 45, 48, 52, 54, etc. Kütyüyana Sulba-parisista 16, 17, 29; n. 11, 12, 21.

<sup>9</sup> Compare Apastamba: 1. 5, 1i, 4, 5, etc.; Baudhāyana: i. 22, 28, 50,

term occurs in the Gphy-sūtras.1 But it is more common in the early Jaina sutras.2 And that is the usual name for the rectangle in later works. There are now generally dis-tinguished five kinds of quadrilaterals: \* sama-caturbhuja, āyatacuturbhuja, dvisama-caturbhuja, trisama-caturbhuja, and visamacaturbhuja Ganeia's classification of the quadrilaterals is more thorough. According to him, "Quadrangle also is in the first place two fold: with equal or with unequal diagonals. The first of these or equi-diagonal tetragon (sama-karna caturbhuja) comprises four distinctions: 1st sama-caturbhuja, equilateral, a square, 2d visama-caturbhuja, a trapezium, 3d āyala-dīrghacaturaira, oblong quadrangle, an oblique parallelogram; 4th āyata-sama-lamba, oblong with equal perpendiculars; that is, a rectangle. The second sort of quadrangle, or the tetragon with unequal diagonals (visama-karna-caturbhuja) embraces six sorts. 1st sama-caturbhuja, equilateral, a rhomb; 2nd samatribhum, contaming three sides equal; 3rd sama-dri-dvi-bhum, consisting of two pairs of equal sides, a rhomboid, 4th sama-dnibhuja, having two sides equal; 5th visama-caturbhuja, composed of four unequal sides, a transcrium, 6th sama-lamba, having equal perpendiculars, a trapezoid "5

To recapitulate: it has been proved conclusively that the early Hindus followed the usage of naming the rectilinear figures according to the number of sides as well as of angles. The carly Greeks also followed the same practice. But while with the Greeks the side-nomenclature is older than the anglenomenclature with the Hindus quite the contrary is the case. Amongst the Greeks the angle-nomenclature appeared after the time of Thales and his school (c. 600-500 B.C.), whereas amongst the Hindus it is found to have existed from long before in the Vedic age.

After the above had been sent to the press, Dr. Gandz has published (Isis, xii, pp. 452-481) a very interesting and instructive article on "The origin of angle-geometry," a section of which (§ VI) deals with the early history of the nomenclature of the rectilinear geometrical figures. His conjecture that "the observation of the corners and angles-and the classification

etc. Kātyūyana : n. 6. Similar use is largest in the Apastamba Sulba-sūtra and least in the Katyayana Sulba-sutra.

<sup>1</sup> Aśvālayana Grhya-sūtra

<sup>2</sup> Bhagabati-süira, Sütra 724. 3 In the Mahüsiddhänta of Aryabhata II (c. 950), the rectangle is called artha-sama-caturasra (literally "semi-equi-quadrilateral") (xv. 67,

<sup>4</sup> Brāhma-sphuta-siddhānta, xii. 35-38; (fanita-sāra-samgraha, vii. 5. For the classification according to Prithudakasvami (860), vide Colebrooke, Hindu Algebra, p. 295 f.n. 1.

<sup>6</sup> Colebrooke, Hindu Algebra, p. 58 foot note. The Sanskrit transliteration in this quotation has been altered in order to make it conform to the modern method.

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according to their number seems to be distinctly Greek, a specific invention of Greek science, based upon the introduction of angle-geometry." (p. 473) will be found to be erroneous in the light of what has been stated above on the basis of the ancient literature of the Huddus

# Some Reflections on Zoological Research in India

## By BAINI PRASHAD

The title of this paper may appear somewhat misleading, for I do not propose inflicting on you to-day a sermon on what are well-known facts to most zoologists who have given any time and attention to research. My object in reading this paper to-day is to draw your attention to various pitfalls and obstacles which abound in the way of young workers who start original zoological research either for the sake of preparing a thesis for some examination or to start on a career of research. I do not propose to lay down various "rules of thumb", which will make zoological research quite simple and easy; but from my experience of the past fourteen years, during which time I have had exceptional opportunities of studying not only the difficulties and deficiencies of young students but also of helping a fair number of young workers and doing some work myself, I believe that it is possible to indicate what is lacking.

With a young worker the selection of the subject for his research is the first consideration. In this connection professors, teachers, or supervisors can help a great deal, but, so far as can be judged from the results, very little attention seems to be paid to this very important issue. There is no dearth of problems in India; the field is very wide, and the problems awaiting investigation are not only innumerable but varied and suited to the capacities and tastes of almost all types of workers It should not, therefore, be a matter of any great difficulty to find something that will suit a worker, but the type of work, which is mostly sent for publication or in connection with which students often come to the Indian Museum for consulting either the literature or the collections, leaves little reason to doubt that students had started work without considering either their own capabilities or the resources which they could possibly have at their disposal for carrying out a certain piece of research. For example, several workers start on taxonomic investigations on a group or a class of animals without being acquainted with or having for reference even the most essential monographic works on the group. They have never examined any big named collections and often do not have even a single authentically named specimen of any genus or species for comparision or to help them to understand the short and often very technical descriptions

of the systematists. There is, no doubt, that in such cases the temptation for the young worker of seeing his name printed after the names of the new species or genera, which he may find and describe, is very great, but it should not be forgotten that taxonomic work on howsoever neglected a group of animals is not so easy as is generally imagined. Taxonomy, to put it briefly, has developed into a science by itself and for any one to believe that he or she can easily describe new species or genera is nothing short of folly. As the late Dr Annandale put it, taxonomic "roology has become so complicated that few of us now-a-days are more than 'Scarabees' This is an immoral state, not only because no man has the right to narrow his interests to a single family of beetles but also because the whole of biology is at present encumbered with unco-ordinated details that clog the machinery of progress instead of acting as motive power". This may be as it is, but we have to face facts and not simply to ignore them

To consider only a few of the difficulties which one encounters in such work, it may be mentioned that the literature necessars for taxonomic work is usually very extensive, sometimes scattered in obscure and not easily accretisable journals or separate publications and as is often to case, published in various languages, while for worker just starting research the short and trees descriptions of the older authors are worse than useless for the correct identification of the nate nul they are working out.

I have been working for nearly ten years on Molluses and cannot even after all this experience claim to be fully acquainted with the literature on all families and genera of Molluses. Even now it takes me some time before I can get together all the necessary literature, and this in spite of the fact that I have an almost complete 'separate' library, properly indexed and catalogued, of my own, and have in addition the excellent collections in the libraries of the Zoological Survey of India, the Geological Survey of India, and the Asiatic Society of Bengal within easy reach. Another more serious mistake in this connection made by students is to start investigations on cytological or histological problems on animals the specific identity of which they do not Specimens of a Land Isopod, the Spermatogenesis know of which was being investigated by a student, were once sent to the Indian Museum for identification It was found that the specimens sent were not all representatives of one species but actually belonged to two distinct genera, and it was not possible at that stage to decide which form the student had been studying. This shows how necessary it is for young workers to exercise due care in reference to the material on which they start working and how essential it is to have the

material identified beforehand. The Zoological Survey of India is always ready to help in this connection and the students are themselves to blame if they do not take advantage of the proffered help.

Considering next the names of the different animals. it has to be remembered that the acceptance or rejection of names is not left to any author's fancy, for if this were the case the science of Zoology would soon reach a stage when it would be difficult, if not impossible, for any worker to understand the writings of other authors, and since taxonomic zoology has a world-wide application, systematists have attempted at various times to adopt rigid rules of nomenclature. In accordance with these rules an animal can have only one name; a name that is valid not only in the country where it is proposed but all over the world Linnaeus!, the father of modern biological nomenclature, apprehending the necessity of a taxonomic standard, proposed m 1751 a set of rules for giving names to plants and animals. This Linnean code was naturally not very complete and various efforts have been made to improve it. The most important set of rules in this connection and to which zoological science owes a great deal was the so-called Stricklandian ('ode, or the British Association Code<sup>2</sup> It was prepared at the instance of the British Association for the Advancement of Science in 1842 and was adopted by Section D (Zoology) of the British Association at its meeting of 1842: these rules were later revised in the meeting of the British Association in 1865.8 Dalle, in 1877, prepared an excellent set of rules at the instance of the American Association for the Advancement of Science. It is not necessary to consider the special code which was adopted in 1885 by the American Ornithologists' Union<sup>5</sup>, as it was very limited in its application. The first code of nomenclature to be adopted by an International Committee was proposed by Blanchard at the first meeting of the International Zoological Congress at Paris in 1889 The proposed code was slightly modified at the

<sup>1</sup> Linuaeus, E C .- Philosophia botanica (Holmine, 1751) was republished by Agassis in his Nomenclator Zoologicus fasc. ix. preface pp. v-xx. (Solodur, 1846).

2 Strickland, H. E.—Report of a Committee appointed "to consider

Textensami. A. E.—Report of a committee appointed to conduce the Rules by which the nonemelature of Zoology may be established on a uniform and permanent basis', pp. 1-17 (London, 1842). Also printed to Rept. Brt. Assoc. Adv. Soi. for 1842, XII, pp. 105-121 (1843).

Steps. Brt. Assoc. Adv. Soi. for 1850, XXXV, pp. 25-42 (1865).

Dall, W. H. Proceed. Amer. Assoc. Adv. Soi. XXXV, pp. 7-57

<sup>(1877).

&</sup>lt;sup>3</sup> The Code of Nomenclature and Check-List of North American Birds, etc. (New York, 1886). O Compts Rend. Cong. Internat. Zool. Paris, I, pp. 333-404 (1889)

second meeting of the Congress in 1892 at Moscow1. 1894 the German Zoological Society<sup>2</sup> adopted a code of its own, originally prepared by a Committee consisting of Carus. Döderlein, and Möbius, but later somewhat modified it as a result of further discussions. In 1895, the Third International Zoological Congress at Leiden<sup>3</sup> considered the whole situation, and found that the English systematists followed the Stricklandian Code, the German systematists the German code, while the American systematists were divided between the Stricklandian, the American Ornithological Union, the Dall, and the International codes As a result of the discussions at this Congress an International Commission of five members was appointed to study all the codes and prepare a general set of rules. The discussions were continued in the fourth meeting of the Congress, and it was not till the fifth meeting at Berlin's in 1901 that the final code was adopted and published Some difficulties still exist, for in the Stricklandian Code, referred to above, the twelfth edition of Lunaeus's monumental work Systema Naturae, published in 1766, was taken as the starting point for modern zoological nomenclature. In the International Rules, however, the tenth edition of the Systema Naturae, which was published in 1758, was adopted as the starting point for the operation of the law of priority. In spite of this most English systematists still stick to the Stricklandian code and have not adopted the tenth edition as the basis for the determination of the valid generic, subgeneric or specific names The rules of zoological nomenclature are very clearly enunciated, and have been published in extenso on several occasions A recent edition of the rules with a resumé of the opinions 1-90 of the International Commission in reference to the various points referred to this body for opinion, was published in 19265 in the Proceedings of the Biological Society of Washington, while the complete set of opinions is published by the Smithsonian Institution of Washington in America in various volumes of its miscellaneous collections 6

In this connection attention may also be directed to the fact that owing to the absence of scientific periodicals during the

Cong Internat. Zool. Moscou. II, pt. 11. pp. 1-83 (Moscou. 1893).
 Verhandl. Deutsch. Zool. Gesellsch., IV. Jahresversum. pp. 36, 37 (1894). The rules were published in the previous volume of the same

work, pp. 80-88 (1894)
 Comp. Rend. Trois. Cong. Internat. Zool. pp. 93-95 (Leyde, 1898).
 Verhandl. V. Internat. Zool. Congr. Berlin, pp. 864-872 (Jona, 1902). The same rules in German and French are published on pp. 935-960.

b Proc. Biol. Soc. Washington, XXXIX, pp 75-103 (1928).

<sup>&</sup>lt;sup>6</sup> The above historical account is partly based on Stile's admirable review in United States Treasury Department, Hygienic Laboratory Bulletin, No 24, pp. 7-9 (1905).

latter half of the eighteenth and first half of the ninenteenth century, works were either published in some obscure journals, or what was worse, as separate books, catalogues, or lists, of very limited editions and of which unfortunately copies are not available except in a few libraries or private collections. The validity of such works is often a matter of great doubt, and there can be no doubt that they have in several instances caused endless confusion in zoological nomenclature.

Another difficulty is in reference to the selection of names for new genera and species. For a long time work in this connection was almost hopeless, for one could never be certain whether a name had already been used in literature or not. Thanks, however, to the works of Agassiz', Marschall's, Scudder's, Waterhouse's, the Zoological Record's and the Nomenclator Animalium generum et subgenerum<sup>6</sup>, it is now possible for workers to find out what names are preoccupied Even with the information available in these works the labour involved in hunting up old names is so colossal that it is not easy, except for people exceptionally fortunate in having extensive reference libraries at their disposal, to find out the names that have previously been used. For the names of species the work is still more difficult, though thanks to the herculean labours of Sherborn in the preparation of his wonderful work, Index Animalium, the task has been made considerably lighter. There can be no doubt that the search for the correct

names of genera and species has often been carried a little too far, and in trying to clear the confusion the authorities concerned have often made the state of affairs much worse.

<sup>2</sup> Marsonall, A. P. Nomenclator Zoologicus, etc. (Vindobonse, 1873). Scudder, S. H. Nomenclator Zoologicus, etc. Bull. U. S. Naz. Mus. No. XIX (1882). This work contains a list of all generic names published. up to the end of 1879.

<sup>1</sup> Agassiz, J L R Nomenclator Zoologicus, etc. Fasc. 1-x (Soloduri, 1842.46) and Numenclatoris Zoologici Index Universalis (Soloduri, 1848).

Waterbushes — O Index Zoologram (1902). This work has an alwaterbushed in the genera and subsensor proposed for near Zoology and aphabethical in the "Zoological Record" for 1880-1900; if is thus a supplement to Suddeds' work noted above. The second volume of this work which was published in 1912 contains a list from the same source for the years 1901-1910.

<sup>5</sup> An alphabetical list of all generic and subgeneric names proposed during the year is published at the end of each volume of the "Zoological

<sup>6</sup> This work contains a list of all generic and subgeneric names from 1758-1922. The work is in progress and in the parts so far published

<sup>1100-1122.</sup> The work is in progress and in the parts so as judicined mames beginning with the letter E have been listed.

1. Index Assemblium Sect. 1, 1752-1800 (Cambridge, 1902), Sect. II, 1801-1800 (up to June 1939, 1) parts of this work indexing names up to Phyliocheves have been published); the second part is a publication of the British Nuesum (Nas. Hist), London.

All the same except for the nomina conservanda correct names in accordance with the provisions laid down in the International Rules must be used

The nomenclature of types and their location is another source of trouble According to the rules of the Zoological Nomenclature types must be deposited in some recognized institution where they will. If necessary, he available to future workers for reference This is a point which deserves special consideration in India, for unfortunately must of the young workers do not restire that the absence of such material may cast doubts on the authenticity of their results.

The young workers will, in two of what has been said workers, do well to leave taxonomic work alone unless they are working at a place where well-equipped reference libraries and big named collections of different groups are available. The description of new species or genera is not of much value unless it is properly carried out, while many of the so-called revisions of different families of animals, which are pubblished nown-adays, simply make the already unwieldy literature more cumbersone. It is, therefore, advisable for young workers to devote their energies in the beginning to other more profitable mes of research and reserve taxonomic work for a much later stage in their career when they have had some experience and have better convoctunities for such work.

Work on morphologoal, histological, cytologoal ecologoal and other similar problems is much sampler, ans of an actensive literature is not always required for reference no are big named collections secentual for comparison. Before starting work on any problem, it is necessary to be certain that the work has not already been done for the adapte. 'there is nothing new under the Sun' is nowhere more truly applicable than in the case of any problem which a young student proposes to investigate Many supposed new problems are on looking up the literature found to have been worked out in detail alteady. I know of cases where excellent work had been done, but which was practically of no value owing to the same work having been published many years before

In reference to looking up literature I would suggest the following procedure; which I adopt myself and which has almost always proved quite efficient in getting together the necessary literature. I first look through various textbooks and standard books of reference like Sedgewick's Textbook of Zoology, Cambridge Natural History Series, Ray Lankester's Texatise on Zoology, Lang's Textbook of Comparative Ana-

<sup>1</sup> A list of the nomina conservanda was prepared by Apstein and his collaborators in 1915 and is published in Siteurapher. Gesell. Naturfor. Freunda Barin, pp 119-202 (1915). This list, however, is not recognized by the International Commission of Zoological Nomenclature.

tomy, Delage & Herouard's Traité de Zoologie Concrete, Claus-Grobben's Lehrbuch der Zoologie, Kükenthal's recent Hand-buch der Zoologie, and, above all, H. G. Bronn's Die Klassen und Ordnungen des Thierreichs!. All these works contain extensive bibliographies on the different classes of animals, and one is sure to find in them some sort of monographic work in which most of the earlier literature on any particular subject is collected up to a certain date. In case of no monographic works being available, the best course is to start systematically and in this connection the best procedure is to look up first Engelmann's three volumes in Bibliotheca Zoologica2 in which classified lists of literature on all groups of the Animal Kingdom from 1700-1860 will be found The work is still in course of publication and the later volumes deal with the works published after 1860, but these recent volumes are not so exhaustive as the earlier ones. From 1864 onwards most of the Zoological literature is classified in the annual issues of "Zoological Record", but unfortunately this work has not been able to maintain its earlier standard, and the recent volumes do not include references to all the work that is published in various countries and in different fournals or books. In addition to the above, therefore, one has to consult Abteilung B of Wiegmann's "Archiv. fur Naturgeschichte"3, "Zoologischer Auzeiger "4 and "Zoologischer Jahresbeucht ",5

<sup>&</sup>lt;sup>1</sup> This work was started under the editorship of H G. Bionn in 1859 and is still being published by the Akademische Verlag, Leipzig, A large number of volumes of this work dealing with almost all classes of animals have been published already.

<sup>&</sup>lt;sup>2</sup> Engelmann, W Bibliotheca Historico-Naturalia. Vol. 1 (1846) deals with the literature published during 1700-1846. Vols. 11 & III by J. V Carus and W. Engelmann are for 1846-1860 (1861) Further volumes water prepared by O Tasehenberg and 7 complete volumes and 3 parts have been published so far The name of the work from Vol. II onwards was changed to Historicae Zoologue.

<sup>&</sup>lt;sup>9</sup> In Vol. 1, published in 1835, the literature lists for 1834 were included but from Vol. 11 nowards a second volume was devoted to this work. At present, this volume is called Abteliung B, and usually 2-3 volumes are published every year. Soveral wolemes of Abteliung B, though published, have not been issued as far, and the work since the War is were much out of date.

<sup>4</sup> In Carus's Zoologischer Ansayer which was started in 1878 a literature het on different classes of animals used to be published in sech volume. This was discontinued with the foundation of the "Bureau bear and the library properties of the careful and the careful bear and properties of Literature. The entire lat was also published as Bibliographic Zoological as applementary volume to Zoologicaler Auserger every

This work was started in 1879 by Dr A. Dohrn, the founder of the Zoological Station at Naples. It differs from other works in that it contained summaries of the more important works. The last volume for 1913 was published in 1924 and the publication has since been discontinued.

One must also look up most of the current zoological literature to find out whether anything on the subject has been published within recent years, and in this connection the reviews published in such works as "Nature", "Zoologische Berichte", "Journal of the Royal Microscopical Society", "Anatomischer Anzeiger", "Review of Applied Entomology", and several other journals are of great help. The recently started serial, "Biological Abstracts", should, when the work is fully

organized, also prove very helpful. According to some authorities it is not necessary to look up previous work till the research one is doing has been completed. I, on the other hand, have found that it saves a great deal of worry and unnecessary work if one has gone through the relevant literature on the subject in good time. It is then possible not only to complete the work in a much shorter time, but also to pay more attention to the lines in which the previous work is faulty.

It is very difficult to lay down the limits to be assigned to the discussion of the previous work. In this connection young students will find it very valuable to read through some contributions by a few of the leading authorities in some standard zoological periodicals This will enable them to adopt the best method of discussing the literature and to decide the limits of such discussions. This is particularly necessary, as young workers often include long extracts and summaries of previous work, which have no hearing on the subject, while most of the really important literature is only casually treated. There are also several instances of young authors including discussions of general problems which they cannot justify from the results of their work; naturally such discussions and conclusions are often not only unjustified but in most cases are of no value whatever In this connection Dr. Annandale's Presidential Address which he delivered before the Zoology Section of the Indian Science Congress at Madras in 1922,1 should be studied carefully by young workers; it contains most valuable hints on how a paper should be prepared.

The question of citing the literature in a paper is rather difficult, as different methods are adopted by different periodicals, but a worker must follow the method which is in vogue in the journal where he proposes to publish his work, above all, he must be consistent. It is also necessary to exercise great care in giving correct titles of all references, and, save in very exceptional cases, references should not be included to works which one has not been able to consult.

<sup>1</sup> Annandale, N. Ethic of Zoology Proc. 1X Indian Science Congress, pp. 79-91 (Calcutta, 1923).

Another aspect of the work, which I propose considering here, is the mechanical preparation of the manuscript. During the periods of my editorship of the two leading zoological fournals in this country and while acting as referee on papers offered to other societies for publication I have found that several of the so-called finished products of research were, owing to the careless way in which these had been made "press-ready". full of mistakes that could easily have been corrected by the authors themselves. This carelessness not only makes the work of the editor almost impossible, but often on the score of time and labour necessary to bring them to a standard fit for publication, makes him reject such communications. If in exceptional cases the editor has been indulgent enough to accept some papers and do the work of editing or rather rewriting them, it should not be inferred that he will always do so. In fact he will, owing to what he has had to do in one instance, be more careful in the future, and refuse any works that are not in a finished form. In this connection I may perhaps be excused for quoting from the presidential address of the late Dr. N. Annandale referred to above.

"Apart from literary style in the writing of zoological papers, the question of the mechanical preparation of the manuscript for the press is one of ethical significance As the editor of the Record (sic Records) and Memoirs of the Indian Museum 1 often receive manuscripts that need many hours' careful and troublesome work before they can be sent to the printer. If it were not for the fact that Dr. Kemp is kind enough to relieve me of much of this drudgery, I would scarcely hesitate to refuse to consider a great part of the matter submitted for publication. Carelessness or ignorance as to punctuation and the use of capitals is rife, and few authors take any trouble in indicating the use of italies or other special type. It is surprising how few zoologists know even such elementary rules as that of the proper use of brackets with the names of the authors of species. These names should never be enclosed in brackets, unless the name of the genus of the species had been chaffed since the latter was first described. These may seem trivial points, but their neglect indicates not only carelessness, but selfishness and lack of understanding "

In spite of the above sound advice I find that little attention is paid to the mechanical preparation of the paper, and as a result several excellent contributions lose a great deal in value. The authors, further owing to not properly preparing their manuscripts are, besides being dubbed selfish and careless, responsible for delay in the publication of their results.

Attention must also be paid to the careful preparation of illustrations which are to be published in a contribution.

Unnecessary figures should be avoided, as owing to the great cost of reproduction now-a-days, few societies or journals can publish a large number of figures or plates. The drawings should be clear, simple, and as true to nature as possible, and should be finished in a style fit for reproduction

I am afraid I have given you a somewhat disjointed account of what is often lacking in the original zoological work that is being carried on now-a-days in India I have tried to indicate what kind of work should not be attempted unless facilities for carrying it out properly are available, how literature should be looked up, and have also dealt with the question of the mechanical preparation of the manuscripts and the illustrations. I have devoted a great deal of my remarks to systematic work and the strict observance of the International Rules of Zoological Nomenclature, as it is in connection with these that most of our young workers make mistakes I shall feel fully repaid if these suggestions help young workers in their work and result in their paying more attention to what are considered, by some, trivial points but which really determine to a very great extent the value and usefulness of any original research.

#### Notes on the Arterial System of the common Indian Toad Bujo melanostictus Schneid

#### By JNANENDRA LAL BHADURI

(Read at the Meeting of the Sixteenth Indian Science Congress, and published with the permission of the Director, Zoological Survey of India.)

#### I. INTRODUCTION.

Bulo melanostictus Schneid, is one of the commonest Indian toads and is used for dissection as a type of the Anura in several Indian Universities. The general anatomy of Buto corresponds to that of Rana, but there are several differences which are so marked that practical note books containing descriptions of Rana are of no value for dissections of Bulo. During my tenure of office as a Demonstrator in Zoology in the University of Calcutta, I investigated the vascular system of Buto melanosticius. In the course of my work on the arterial system I observed some constant and marked differences. mainly in reference to the branches of the systemic arches and the dorsal acrts from the other types of Angrans which have been described so far Since these differences have not been noticed in any other type, a general illustrated account of the arterial system will, I hope, prove useful. In the following account, however, no attempt is made to treat in detail the various arteries but only the general course of the arteries, as is followed in practical classes, is described.

No account of the vascular system of Bulo was published previous to the short notice in Crawshay's paper (2) on the variations in the arterial systems of the Anurans His remarks in reference to the genus Bulo were based on dissections of one specimen each of Bulo boreas and Bulo mauritanicus, and according to him the toads of this genus do not markedly deviate from the frogs of the genus Rana.

The only other work, which refers to Bujo melanostictus, is that of Ghosh in his elementary account of the anatomy of some common Indian Vertebrates (4), but his account of the vascular system of this toad is rather incomplete, while the drawings are far from satisfactory.

I have here to record my sincere thanks to Dr Baini Prashad, Officiating Director of the Zoological Survey of India, for his kind criticism, assistance and valuable auggestions.

# II. MATERIAL AND METHOD.

This account is based on an examination of a large number injected specimens of Bujo melanosticus collected in Caloutta The observations on the chief peculiarities were further substantiated during my demonstration to the practical classes of the Calcutta University.

The injected fluid used for studying the main arteries is the one recommended by Parker and Parker (*ice cit.*, p. 99). Before injecting the fluid the arteries were washed with normal saline solution and the vessels were later injected through the vantriely via the counts.

#### III. DESCRIPTION OF THE ARTERIAL SYSTEM

Conus arteriosus and Truncus arteriosus (Fig. 1)

To avoid confusion it is necessary to preface my account with a short description of the conus arteriosus and the trimous arteriosus.

The conus aretriosus (co a.), as in all Anurans, arises ventrally and somewhat anteriorly from the right side of the ventricle (ven ), and then passes obliquely forward across the auricles. It is muscular, but its walls are not so thick as those of the ventricle. The conus, though not very distinctly marked off from its further continuation which is termed the truncus, can, however, be considered to terminate at the slightly constricted region whence a very short tubular structure of almost uniform diameter runs forward; this corresponds to what Gaupp (loc cit, p 277) terms the trunous arteriosus impar (t.a.i) The truncus impar bifurcates into two trunks, a right and a left, which have respectively been termed as the truncus arteriosus dexter (t a.d ) and the truncus arteriosus sinster (t.a.s.)1. Each of these truncii consists of three vessels enclosed for some distance in a common sheath and appears externally as a single vessel, but is divided by two internal partitions into three chambers which are known as the canalis caroticus, the canalis aorticus, and the canalis pulmo-cutaneous. After running a short distance the three canalicular vessels separate to form the beginnings of the three main arterial arches viz. the carotid (ca), the systemic (s.a.) and the pulmo-cutaneous (p-c.a.).

<sup>1</sup> In spite of Gaupp (3) having rightly considered the conus and the truncus as two distinct structures Marriner (6), Ghosh (4) and several other authors have described the two together under the term truncus arteriosus.

Bulbis cordis artery (Fig. 1). Before describing the arteries of the three great arterial arches it is convenient to consider here the artery which supplies the conus arteriosus (co.a.). It is called the bulbis cordis artery (b.c.a.). It arises from the ventral root of the right canalis caroticus

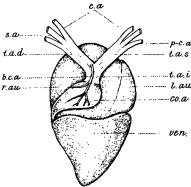


Fig. 1.-Ventral aspect of the heart and arterial arches of Bufo melanosticius. z \*

b.c.a. -bulbis cordis artery. c.a .- carotid arches. co a .-- conus arteriosus. Lau.-left auricle.

p-c a .- pulmo-cutaneous arch. r.gu .- right auricle.

tai.-truncus arteriosus impar. t.a.d. -- trunous arteriosus dexter. t.a.s.-truncus arteriosus suster

ven .-- ventriole.

s.a -evstemic arch.

and runs backwards over the truncus arteriosus impar (t.g.i.) to reach the anterior end of the conus. Here it divides into two main branches which supply the ventral and dorsal surfaces of the conus arteriosus. Buibls cordis artery is, as is usually seen in the frogs, distributed on the conus only and is not seen to proceed beyond it.

In several dissections I found that this artery was liable to a great deal of variation. In two or three specimens of Bujo moleonoticities this artery was found to originate from the left canalis caroticus, as observed by Crawshay (2) in Bujo mousticanicus, while in another specimen there were rarteries arising separately, one from the normal position and the other from the anterior point of bifurcation of the truncus impact for supplying the conus walls.

# 1. Carotid arch (Figs. 2 and 8).

Of the three arterial arches the most anterior one, the carotid arch (c.a.) se concerned with the blood supply of the head and the brain Each carotid arch shortly after its origin from the canalis accretious swells out into a small and almost spherical bulging, the carotid labyrinth (c.l.) which is often referred to as 'carotid gland' in literature.

#### (i) External carotid artery.

Just before expanding into the carotid labyrinth the arch gives off a slender branch—the external carotid artery (e.c.a.) or the lingual artery of various authors It runs ventrally inwards and forwards over the throat, and sends several branches to the thyroid glands, the hyoid apparatus and its associated muscles, while its main trunk supplies the tongue.

# (si) Internal carotid artery.

The main actery from the carotid labyrinth (c1) is continued as the internal carotid artery (fig. 8, i.c. 2)—the carotid artery of most authors it runs superficially for a very short distance and then curves round immediately between the petrobyoideus muscles. The portion of the artery lying in between these muscles was found to be greatly compressed in both injected and unnjected specimens; this can be seen by carefully removing the petrohyoideus muscles. Emerging from the muscles it runs round the casophagus in close proximity to the systemic arch (s.ar. and s.a.t.)

Myrti, as mentioned by Gaupp (3), was the first to cheerve the origin of this artery from the ventral root of the canala caroticus dexter and also from the tuness arterious dexter in Sufe sulgeris. This has been confirmed by Gaupp in Rome seasonis. To eventably (2) has, borner of the confirmed by Gaupp in Rome seasonis. To event the different groups of Anner He found that in Rome from the different groups of Anner He found that in Rome from the different charge from the has of the right canalas caroticus; in E. Association for a state from the base of the right canalas caroticus from the base of the left canalas caroticus and in E. massification that the caroticus from the base of the left canalas caroticus.

and nearly overlaps it about the origin of the subclavian and the occipito-vertebral arteries (Fig 8, sub.a. and oc-v.a.). These two arteries here are enclosed in a common sheath of tissue which may be called ligamentum caroticum 1 (Fig. 8, l.c.). The internal carotid artery (i.c.a.) then takes a very sharp bend

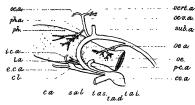


Fig. 2.-Lateral view of the anterior arterial system seen from the left side.

- c.g.-carotid arch. c.l -carotid labyrinth.
- co.a -conus arteriosus
- e c.a .- external carotid artery. i.c.a .- internal caroud artery
- 1.a.-laryngeal artery.
- oc.a. occipital artery.
- oc-v.a. -- occipito vertebral artery.
- oe. -oesophagus.
- os.a. oesophageal artery.
- p-c,a. pulmo-cutaneous arch. ph.-pharynx.
- ph.a.-pharyngeal artery
- s.a. -systemic arch.
- sub, a .- subclavian artery.
- t.a i -truncus arteriosus impar.
- t a.d.-truncus arteriosus dexter t.a.s.—truncus arteriosus suaster.
- vert. a .- vertebral artery.

and runs inwards, forwards and dorsal to the pharynx to enter into the posterior angle of the orbit. It is to be noted that this artery from its origin to its entry into the skull, sends no branch whatsoever to any part of the surrounding tissues,

<sup>&</sup>lt;sup>1</sup>The ligimentum caroticum has escaped the notice of most above. It was noticed by Bourne (1) and Marshall (7) who described it as an imperjous condition of the ductus Botalli. Gaupp (3), again, described it as an obliterated ductus arteriosus. It should. however, be noted that the embryonic connection between the systemic and the earchid is nother the ductus already betail not the ductus arteriorus, but is the true ductus earchious. This discrepancy in nomenclature was clearly pointed out by O'Donoghue (8) in Reptiles where the embryonic connection of the different arches is very often retained in the adults.

#### 2. Systemic or Aortic arches (Figs. 2 and 8).

The median arch of each side is known as the systemic or aortic and (a.a.) of that particular side Bach arises from the canalis aorticus and winds obliquely round the compohagus and then turns unwarls and backwards to joint fellow from the opposite side in the middle line at about the level of the eight vertebra. The right systems arch is continued as the dorsal aorta (Fig. 8, d.a.) which runs backwards in the body cavity just ventral to the vertebral column and between the kidneys to about the middle of the unsatyle where it bifurcates into the two line arteries (fig. 8, s.a.). The left systemic arch, after its union with the right arch continues as the collineo-mescenteric artery (Fig. 8, c.a.)

In Bujo melanostetus the number of Inniches given off from the two systemic arches is different. Four atteries arise from the left systemic axis (\*\*ad\*) and only three from the right (\*\*ad\*\*), there being no cosphageal branch on the right side. It will, therefore, be convenient to describe here the different branches of the left systemic artery.

# (1) Laryngeal artery.

The laryngeal artery (l.a) is a short and stout vessel. It arises from the inner border of the systemic very near to its origin from the canalis acricios. It passes dorsal to the carotid labyrinth (a.l.) to supply the larynx and its muscles

## (ii) Occapito-metebral artern.

The occipito-vertebral artery (oc-ra) arises from the dorsal rate of the systemic arch close to the origin of the subclavian artery (aba a) and opposite the transverse process of the escond vertebra. It runs slightly forwards and inwards into the back muscles between the atlas and the skull. It then devides dorsally, as in Rana, into the occipital and the vertebral arteries (Fig. 2, oc.a. and vert.a.) The most interesting feature in the course of the occipitor vertebral artery is that at a point about half-way between its origin from the systemic and its cutry into the back muscles, it gives off a branch which runs backwards and upwards to supply the dorsal region of the pharyur. This may conveniently be called as the pharyqued artery i (Fig. 2, ph.a.).

<sup>1</sup> This pharyequel branch of the occupte-vertebral artery has not been described in any Anurans so far. Crawhay (2) shows the sasphageal artery in several species of Heau and Bulo as originating one. This condition was found by me in dissections of the companion of the companion

#### (iii) Subclavian artery.

The aubclavian artery (sub.a.), which is very stout, is the largest of all arteries arising from the systemic arch 11 originates from the external border of the arch immediate; by behind the occipito-vertebral artery (so-e.a.) and runs straight outwards alongside the brachial nerve. The pectoral girdle and the forelimb are supplied by several branches which vary greatly in number and distribution in different specimens.

## (1v) Ocsophageal artery.

The cosophagoal artery (oc.a.) is the last and the smallest of all the arteries arising from the left systemic arch (s.a.l.). As noted already it is present only on the left site. This artery arises from the inner horder of the systemic. This artery arises from the inner horder of the left systemic nearly half-way from the origin of the sub-clavian artery (sab.a.) and the union of the right and left systemics. The part of the cosophagus (or.) which lies between the two systemics is fed by this artery. In one solitary instance only, during class demonstration, I found the resophagoal artery originating from the right systemic arch, and there was, however, no corresponding artery on the left side.

It is also of interest to note here that in the other Indian toad Bulo stomaticus also there is only a single essephageal artery which originates from the left systemic arch in almost the same position as in Bulo melanostatus.<sup>2</sup>

I Crawhay (3) who has described the veriators of the irraches of the subclavian sciery in different species of Ross and Bufe, and has been been as the second of Ross and Rufe, and has been provided in the second of the second

<sup>8.</sup> Reference has already been rande to the origin of the ossephagonal retries in frogs. They always arise from the two systemics in all the different types of Antra described by Crawshay (2) and other authors. The angle origin of the ossephagonal actery from the left systemic arch alone except in the two species of Bufo mentioned above has, however, and the common in most forms. But very recently Rau (12) speaking of the origin of the ossephagoal artery in Ceratophyre with reference to Crawshay's observations remarks that it "exists from a different level almost midway between the subclavian artery and the root of the dorsal action." The origin of this actery no doubt shows a similar position as origin. The origin of this actery no doubt shows a similar position as in July, but he does not mention pertindianly whether this air present in July and the property of the control of the described for the control of the control of the described for the control of the contro

#### (a) Coeliaco-mesenteric artery (Fig. 3).

The coeliaco-mesentario axis (x - ma) is a large unpaired artery which arises from the point of union of the two systemic arches (x - ar), and x - aL), and supplies the alimentary canal and its various appendages. After a short simple course if divides into two main branches, an anterior coeliac artery (coel.a.) and a posterior mesenteric artery  $(mes \ a)$ . The latter came is suggested in view of the total absence of any posterior mesenteric artery as such which is commonly found in the frogs.

#### (1) Coeliac artery.

The coeliac artery (cocl.a.) is not so large as its sister branch, the mescateric. It supplies the whole of the stomach (st.), the liver. the gall bladder, and the greater part of the pancreas. The coeliac artery divides into two main branches:

- (a) The left gastric artery (g.a s.) passes right up to the stomach (st.) and sends many fine branches to its dorsal part.
- (b) The second branch is larger than the preceding in the sease that its main axis, which is called the right gastric attery (σ.σ.l) mainly supplies the stomach, while a side branch peacerally styled as the hepatic artery (or rather the hepatopanoreasic artery) is given off to the liver. In its course it sends several fine branches to the pancreas (ρ.σ.), and after reaching the liver it gives off two to three small branches to the gall bladder and finally breaks up in the substance of the liver into numerous ramifications.

# (2) Mesenteric artery.

The mesenteric artery (mes.a) is, as usual, a long and large artery. It supplies the sphern and the whole of the intestine (int.) including the rectum (re.). The first branch given off from this axis is the sphenic artery (spl.a) to the sphenic. Generally the sphenic artery arises from the mesenterio artery before any other intestinal arterial branches, but quite often it arises from the distal ranus of the intestinal arterial branch as was shown by Crawbay (2) to occur in some species of Ranca and in Bulo materials with the species of Ranca and the species of Ranc

The mesentario artery can conveniently be divided into two main branches, of which can be arready of the duodenum and the anterior part of the intesting of the duodenum and the anterior part of the intesting a first dustal branch is, however, a much ramifying stem which divide the property into a variable number of large and small vessels, which by further sub-divisions supply the rest of the intestine including the rectum as shown in the diagratic and the intestine including the

Mention may be made here of the fact that the arterial blood supply of the pancreas is not derived entirely from the

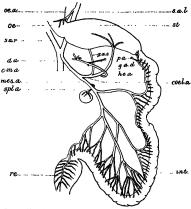


Fig. 3 —Ventral view of the arteries supplying the alimentary canal and its appendages.

artery.

cosl. a.—coeliac artery.

d.a.—dorsal aorta.

g.a.d.—right gastric artery.

ha.a.—hopatic artery.

int.—intestine.

mes. a.—mosenteric artery.

os a.—oesophageal artery p.s.—pancreatic artery. re.—rectum.

or -oesophagus,

s.a.l.—left systemic artery.
s.a.r.—right systemic artery.
spl. a.—splenic artery.
st.—stomach.

hepatic artery but also from a small recurrent branch arising from the duodenal section of the mesenterm artery (p,a).

#### (b) Dorsal Aorta.

### (i) Urino-genital arteries (Figs. 4,5,6 and 7).

The urino-genital arteries arise, as usual, by either unpaired or independent stems or both together from the ventral surface of the dorsal sorts between the hidneys. They supply the kidneys, the fat bodies, and the reproductive organs These arteries vary in number and position, as well as in respect of unpaired and independent stems. The extent of variation of these arteries in male and female toads is shown in Figs. 4,56, and 7, and an inspection of these figures will do away with the necessity of a detailed description of the individual arteries.

Occasionally the first of the true urino-genital arteries arises close to the base of the coeliaco-meenteric artery or actually from the axis itself and supplies the anterior head of the kidney. Such a condition was found by Crawshay in Bujo mawritaneous, and I figure (Fig. 5) a similar condition tound by me in a specimen of Bujo memoritaneous.

## (11) Lumbar artery.

Attention may here be drawn to the fact that the lumbar arteries which are so characteristic of frogs, are altogether absent in Bulo melanositics. In certain cases, a single lumbar artery was seen to originate from the terminal section of the dorsal sorts to supply the back muscles? (See Fig. 4).

# (iii) Postersor mesenteric artery.

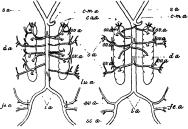
No trace of the posterior mescateric artery, which is commonly present in the Ranids, was found in Bulo metamoscommonly present in the Ranids, was found in Bulo metamoscoscoscos. In two examples of Bulo boras as usual in frogs, from the median ventral line of the dorsal so that is the line of the urino genital arteries and the bifurcation of the sorte, and its absence indeed is very peculiar in the Indian toad Bulo metamoscicus.

# (iv) Iliac artery (Figs. 4,5,6,7 and 8).

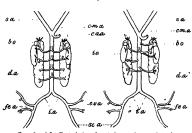
As has been mentioned above, the dorsal acrts bifurcates about the middle of the length of the urostyle into two large trunks, the lisa arteries (i.a.). Each of the iliac arteries diverges

<sup>1</sup> Provious authors who have described examples of Bufo have noted the absence of this artery. Crawhay (2) on the other hand, observes that "the As lumbales were not followed sufficiently for purpose of commanan."





Figs. 4 and 5.—Ventral view of posterior arteries in female toads.



Figs. 6 and 7.—Ventral view of posterior arteries in male toads. Explanation of figures 4 to 7.

# b.o.—Bidder's organ. c.a.a.—corpus adiposum arteries.

s.a.c.—corpus adiposium art s-m.s.—coeliaco-mesenteric artery.

### d.c.-dorsal sorte.

e-v.a.—epigastrico-vesicalis artery.

- fs. a.—femoral artery.
  - lu.a.—lumbar artery.
- or a.—ovarian arteries.
  - sc.a.—systemic artery.
  - te.—testis.

caudalwards and mus alongside the solutio plexus towards the thigh, heyond which it continues as the solutio actrop thicking actropy (a.c.). It sometimes runs between a nerve loop formed by the nerves of the solutio plexus. Before reaching the shigh proper it sends off two very important actrories:

### (1) Epigastrico vesicalis artery.

Epigastrico-vesicalis artery  $(\epsilon \cdot v \cdot a.)$  is a very stout vessel, which runs laterally and divides into numerous branches to supply the bladder and the muscles of the adjoining region.

### (2) Femoral artery.

The femoral artery (*te.a.*) arises shortly after the above artery. It passes directly to the upper part of the thigh to supply its muscles.

In this connection it may also be noted that several grades of variations from the contiguous origin of the epigastricovesicalis and the femoral arteries to a distinct separation of the two have been observed in different specimens of this toad.

### (v) Ischiatic or sciatic artery.

As mentioned above the ischiatic or sciatic artery (sc.a.) is the continuation of the iliac artery — It supplies the rest of the hind-limb.

# 3. Pulmo-cutaneous arch (Fig. 8).

The pulmo-outaneous arch (p-c.a.) in the hindmost of the three arches. It arises, as in frogs, from the pulmo-outaneous canal and after a short simple course passes to the lung as the pulmonary artery (pul.a.) giving off a slender branch, to the skin, the cutaneous artery (cul.a.). This arch carries impure blood to be purified in the lungs and the skin.

# (i) Pulmonary artery.

The pulmonary artery (pul a.) runs backwards to the root of the lungs where it ramifies into a large number of branches.

# (ii) Cutaneous artery.

The outaneous artery (ext.a.), as mentioned above, is a very slender artery. In its course it travels somewhat forwards, outwards and upwards and disappears between the angle of the jaw and the fore-limb. On reaching the skin it divides into numerous branches forming a rich anastomosis.

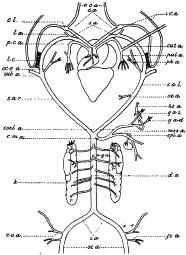


Fig. 8.—General course of the arterial system of Bufo melanosticius.

c.a.—acotid arches; c.l.—acotid labyrish; c.s.a.—cosinos mesentario attery; cost, a.—cosinos actery; c.s.—financia actery; c.s.—financia actery; c.s.—pastrio actery disc.—financia actery; c.s.—pastrio actery disc.—financia actery; c.s.—acterio actery disc.—financia actery; c.s.—cosinos actery; c.s.—cosinos

#### IV. SUMMARY.

The arterial system of Bujo melanosticius differs in several aceptes from that of the other types of Anurana which become described so far. In the above account the aceptes of the several control of the several country to the several commendature for different arteries being used in the description.

(i) The two structures, the conus and the truncus arteriosuses, are distinguished and their relative situation distinctly outlined. The further subdivisions of the truncus arteriosus

are also described.

(ii) The internal carotid artery and the systemic are enclosed in a solid strand of tissue, which from its homology with other groups is termed ligamentum caroticum in the above account.

(iii) A pharyngeal branch of the occipito-vertebral artery

is recorded for the first time in Anura (iv) The ossophageal artery, unlike the condition in other Anura, is always snate and arises from the left systemic arch. This condition has also been noted in Buto stomaticus.

(v) In view of the total absence of the posterior mesenteric artery as such the term mesenteric artery is employed for the anterior mesenteric branch of the colliaco-mesenteric trunk.

(vi) Lumbar arterias are absent in this toad, but may occasionally be present as an abnormality.

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#### Studies on Indian Ichneumonidae

The External Morphology of a Common Ichneumon-fly of India, Xanthopimpla pedator, Fabricious

By A. C. SEN

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### INTRODUCTION

The lehneumonide constitute a very important group of the parasitic Hymenoptera. They are widely distributed in India and are met with in the plains as well as in the bills. They vary considerably in size and colour, some being quite minute, others measuring as much as two inches in length. They are all parasitic and attack the eggs, pupes, larva and even adult members of many orders of insocte, as well as synders, labes-corpious and centipedes. Their special prey and hence the family is of great economic importance in an agricultural country such as India.

In spite of the great importance of this family, the biology of even its most common forms has not been studied in India. At the suggestion of Dr. H. S. Pruthi, Officer-in-Charge of the Entomological Section of the Zoological Survey of India, I undertook the study of the biology and life-history of this important family. As a preliminary to this study, I theroughly examined the morphology of the common Ichneumon-Hy, Xanthopinple, predator, which is described in the present paper. Furthermore, with a few notable exceptions, no detailed studies have been made of Indian insects that may be used as Types by students of Zoology and Entomology in this country and the accounts available are all beased on foreign species. It is therefore, hoped that the present study will provide an account records.

#### MATERIAL AND METHODS

The specimens, on which this study is based, were all collected in the Darjeeling District in May and June of 1912, and were in the collection of the Indian Museum. A specimen was first put in 10% KOH solution for about 24 hours, washed in distilled water to which a few drops of Acetic Acid had been added, then passed through the various grades of alcohol said

finally cleared in Cedar Wood Oil. Before mounting the preparation in Balsam, all traces of oil were removed by putting it in Xylol for a few minutes All diagrams have been drawn with the Camera Lucida

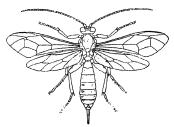
The terminology followed in this paper is the same as that employed by Snodgrass in his work on the "Anatomy and Physiology of the Honey-Bee" (1925)

I take this opportunity of expressing my gratitude to Fr. H. S. Pruthi who supervised my work and always helped me by giving advice and by affording me facilities for carrying on my investigation. My thanks are also due to Lt.-Col. R. B. Seymour Newell, I.M.S., Director. Zonological Nurvey of India, for allowing me to work in the laloratories of the Zoological Survey of India, and for kindly going through the manuscript and making necessary suggestions

#### General Morphology of the Ichneumonidae

The body colouration of the lenneumonids is mainly of the warning type, such as black, vellow or reddish-vellow, and the two sexes are often similar to each other. The different parts of the body, the head, thorax and abdomen, are quite distinct from one another As in all other Hymenopterous insects the members of this family have two pairs of membranous wings, which are similar to each other in texture. and have veins very much reduced in number the hind-wings are smaller than the fore-wings The costal margin of the hindwings bears a series of hooks or hamult the function of which is to grasp a ridge-like thickening along the niner margin of the fore-wings The mouth-parts are modified for chewing and sucking purposes, a condition met with only in certain specialised members of Hymenoptera. The intermediate region of the body does not consist of thorax alone but also includes the first segment of the abdomen. This transferred segment is known as the propodeum. The thorax proper possesses two pairs of spiracles, but the presence of three pairs of spiracles in the Hymenoptera indicates the inclusion of the first abdominal segment with its spiracles in the thoracic region The abdomen is connected to the thorax by the narrow basal half of its first segment, termed the petiole The apparent first abdominal segment is really the second segment.

The special features by which the parasitic Hymenoptera can be distinguished from the rest of the Hymenoptera are that the second joint of the leg, namely, the trochanter, always consists of two joints, and in the lohneumonude only a second recurrent nervure is present in the fore-wing. These characters will be more fully explained in the detailed descriptions of the parts given less. In the Ichneumon-flies the head is prominent and tapers towards the mouth, the eyes are large and cocupy the greater portion of the head, the coelli are three in number and are always present. The antenne are situated between the eyes, are setaceous and many jointed, the number of joints varying from fourteen to seventy. Unlike those in the allied family Franide the antenne in the Ichneumon-flies are never elbowed. In some forme, a short neak is present. The thorax is broader than the other parts of the body and is well built and its three components, pro. meso. and mats-thorax. can be made out easily. Although the propodeum consists of the flued meta-thorax and the first segment of the abdomen, yet



Text-Fig. 1, Dorsel view of the Ichnoumon fly, X. pedator,  $x_1 \times 2^{-7}$ .

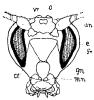
many authorities designate the whole structure as the matethorax. There are eight dorsal and ventral segments wisible in the abdomen of the male, but in the female the number of ventral segments is reduced to six. The abdominal segments are smooth and have distinctive marks on the dorsal surface. The ovipositor is often long and is sometimes longer than the abdomen itself. It is strong and sharp, and its prick and the poison that is ejected through it from the poison gland at the base, paralyses the prey and thus the fly safely deposits her eggs on its back or inside its body, and the young larvas that emerge from these eggs live by feeding on the juices of the paralysed host.

# MORPHOLOGY OF XANTHOPIMPLA PEDATOR

# (α) The head and its appendages.

The head (fig. 1A.) is large and forms the most conspicuous part of the hooly. It is pale yellow in colour and appears almost triangular in shape when viewed from front. The dornal side of the head is convex, its base is somewhat concave so as to fit on the thorax. As in most adult insects the segments comprising the head cannot be distinguished, but the following regions of the head can be made out, beginning from the base and proceeding towards the auterior.

The base of the head, known as the occuput (or.), is concave and curves downwards at the sides to meet the post-genee from which it is not separated by any suture. The occuput



Text-Fig. 1A. Antorior view of head of a male specimen  $\times 9$  an mantenna; cl =clypeus, s = eye; fr = front; gn = gone; ms = mandable; o = coelli; vr = vertex.

is black throughout. The next region is the vertex (vr.) which forms the dorsal side of the head capsule and which bears the ocelli (v.). It is short and convex.

The vertex is followed by the front (fr.) which constitute the upper one-third of the face. It is very large and deep yellow. It is almost trapezoid in shape. It bears the antennæ and is bounded laterally by the large compound eyes (c.).

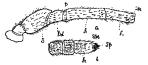
The next region is the clypeus (d.) which is almost triangular in shape. It is a distinct sclerite, being separated from the neighbouring parts by well-defined sutures.

The sides of the head, the genne (gm.), are large, extending from the elypeus and labrum to the lateral margins of the head. Posteriorly they are continued as the poet-genne, there being no line of demarcation between the two. The terms, genne

and post-genæ, are applied to the different regions, anterior and posterior, of the same sclerite.

The compound eyes (fig. 1. e.) are very large, occupying the lateral sides of the head. They are not round as is the ease in most insects but are crescentic in shape. Their colour fisherous, with the margins black. The three ocelli (e.) are black and are very conspicuous; they are arranged in the form of a 'triangle on the dorsal region or the vertex.

, The antenne (fig. 2.) are very important organs as they originate from the upper side of the head. a little below the median occlins and are a little shorter than the length of the body. They are many jointed, there being 37 joints in the male and 48 in the female. They are very thin, with the apical joints slightly enlarged. An antenna when observed under a



Text-Fig. 2. Antenna of a male. ×18.

(a) basal portion; (b) spical portion,  $f_1 = \text{first Hagelium}$ ;  $f_2 = \text{second Hagelium}$ ;  $f_1 = \text{isst Hagelium}$ ; p = pst at the base of the first Hageliar jours showing the presence of Johnston's organ, pd = pedicle: s = scape; s pl = sense-plates; s p = sense-plates; s p = sense-plate

microscope is found to be covered on almost all sides with numerous fine hairs. The hairs are unbranched and can be divided into two categories, namely, short and long varieties. The antenna is fuscous except on the under surface of the first The first antennal joint is called the joint which is brownish. scape (s.), the second the pedicle (pd.), and the following joints are known as the flagellar joints or clavola (Comstock). Some authorities call the joint next the pedicle as the annellus. The scape is the thickest of all the joints. At its base there are two smaller segments, the proximal one of which is almost cylindrical. The joints that follow the pedicle gradually decrease in size. The scape possesses only the longer variety of hairs, whereas the other joints have both the long and short varieties, the long kind being confined to the sides. At the base of the first flagellar joint is seen the "organ of Johnston" which is indicated externally by a circle of pits (p.). From the first flagellar joint onwards, the antenna is covered, in addition to the ordinary hairs, with sense-plates (s.pl.), recurred and sensory hairs. The sense-pegs (s.p.) are restricted to the apical segment (fig. 2, b).

The sense-plates and sense-pegs are nothing but modified hairs The sense-plates though so different in shape are exactly similar in their internal structure to the ordinary hairs. These sense-plates are absent on the scape and pedicle but are present

on all the flagellar joints.

The sense-page are thick and blunt and as already stated are confined to the extremity of the spical joint. These these the terminal cap described by Vogel (1923), in the corresponding organs of waspe. The number of sense-page varies in different genera in the folineumonides. In Xunthopimpta there are ten sense-page arranged in a curved row at the tip of the antenna in both serves. In the genus Pseudeugalla the number is roduced to eight

Stoodgrass [1925] also found similar structures on the antenne of the bec, although their positions and number very from those present on the antennes in the Ichneumonide. In the bee, according to Stoodgrass sense-plates are found after the third flagellar joint and sense-page are met with after the fourth flagellar joint, and more abundantly on the end fourth flagellar joint, and more abundantly on the end to the eleventh joint. Stoodgrass does not mention the actual number of the sense-page present on the individual joints.

The sense-plates and sense-pegs are both sensory organs as shown by Mc Indoo (1916) and Snodgrass (op. cit.) in the case of bees.

The ordinary hairs are also differently distributed in bees and wasps, in which the large variety is restricted to the scape only and the small variety to all other joints.

Excepting bose and wasps, practically no detailed work on be structures of the antenna has been carried out in any group of the Hymenopters. Probably a careful examination will reveal the existence of similar structures in other forms as well reveal the existence of similar structures in other forms as well family, loneuronois processes and cortain other members of the been able to detect them.

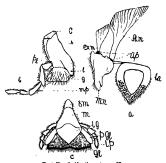
The Mouth-Parts. (fig. 3, a, b, c.).

imecsa according to their modes of life. In the Iohneumonida the mouth-parts are adapted for both ohewing and sooking. The various parts are quite distinct and prominent and consist of an upper lip, the labrum (ia.), an under lip, the labrum, and two pairs of jaws acting horizontally between them, a superior pair, the maxille, and an inferior pair, the maxille, and an inferior pair, the maxille and the labrum are furnished with a pair feelers called the maxillary palpis and labils palpir respectively.

The labrum (fig. 3a, la.) or the upper lip, lies anterior to-

the otypoal region. It is a broad, free, flat, and triangular flaplying above the opening of the mouth. It is freely movable. It is not long enough to cover the mouth-parts. It forms the roof of the anterior most part of the mouth and has a central, raised, triangular ares. On the apical side of it some granules are seen.

The mandibles (fig. 3a, mn.) or the jaws, are strong organs, closing behind the labrum and hinged to the lateral parts of the



Text-Fig. 3, Mouth-parts. ×23.

a, labrum and mendible; b, maxilla, s, labium.

sp=apodemes; c=cardo; ss. m=extensor musels; ft.m=flavor musels; g=gales; g!=glosses; t=laoinis; la=labrum; lp=liguls; l.p=labla! palpus; m=mentum; m=maadible; mp=maxilles; palpus; p. g!=peraglosses; p!=palpifer; s=stipes; sm=submentum.

head, below the gense. In the Ichneumonids and in most other insects these consist of only one segment although in certain members of the family Scarabseidse (Coleoptera) they consist of several distinct solerifies.

The mandibles are highly chitinised and triangular in shape. They are broad and thick in the proximal region and narrow abruptly in the distal region. Their apices are bidentate: both teeth are black, hard, and pointed, the outer one being slightly longer than the inner one. The mandibles are firmly attached to the head capsule by two muscles and are thus able to move in a transverse axis. On the two extremes of the base of the mandibles are seen two knobs by which the mandibles are suspended from the genæ. The two muscles, referred to above, are known as the "extensor muscle" (ex.m.) and the "flexor muscle" (fl m): the former pulls the outer edge of the base, thereby opening it, and the other one pulls on the inner edge, thereby closing it. The flexor muscle is stronger since most of the hard work of the mandible falls on it. muscles consist of flat fan-shaped bunches of fibres, diverging from the chitinous stalks, the apodemes (ap), at their bases. The distal ends of the fibres are attached to the walls of the The mandibles are sparsely covered with minute hairs is connected with the labrum by a thin chitinous rod near the hase as shown in the diagram

The first maxille (fig. 3b ) are the second or superior pair of the jaws They hang on the sides of the mandibles Each maxilla is primarily divided into five distinct sclerites, namely, the cardo (c.), the stipes (s.), the palpifer (pl), the galea (g) and the lacinus (/.) The cardo is the basal piece, and is small and triangular it is upon this selerite that all motions of the maxilla is dependent. The stipes is the largest of all. It is oblong in shape and bears at its apical end the galea and the lacunia and on the outer corner of its distal end is inserted the palpus. The area at the base of the palpus is known as the palpifer, which, unlike that in many insects, is not distanetly marked off in the species under discussion. The gales slightly overlaps the lacmia, it is large, flat, and semicircular in shape and is fringed with smaller hairs. The lacinia is small and narrow and is borne on the inner margin of the stipes. Its margin also is fringed with small hairs

Moriev (1913) stated that the maxille are only three jointed in the larva. He did not mention the names of these three joints nor the number of joints found in the adults.

The maxiliary palyus (mp.) is five jointed and is covered with fine hairs. The different joints are not of the same size and shape: the basal piece is stout and strong, the second and third sub-equal, wider distally than at the proximal end, the fourth little more than half the length of the second and the fifth slightly longer than the fourth and rounded distalled.

#### The labium.

In the embryo the second maxille fuse with each other so so form a single organ called labium (fig. 3c). Like the maxille, the labium consists of several parts which are, however, smaller than the corresponding parts of the maxille and several parts of the labium cannot be homologised with any degree of precision with components of the maxilla. The basel selectic of the labium, known as the submentum (em.) is homologous to the cardines of the first maxilla. The submentum is very small and narrow and is bounded laterally by the stipes of the first maxilla. The nementum is very small and narrow and is bounded laterally by the stipes of the first maxilla. The mentum is wide, bread, and sub-triangular in shape, having the apical portion much wider. In the infero-lateral region near the lateral angles the bears two palpi, one on each side. The mentum is followed by a triangular sclerite, the ligula  $(g_1)$ , which at its distal end bears a pair of 10 lose, namely, the glosses  $(g_1)$ , and the paraglosses  $(p_2)$ .

The two glossee are fused into a median lobe as is met with an saw-fit, bee and many insects that feed on liquids. But the shape found in X pedator differs much from those found in hee and others. In X, pedator the united glosse is flat and broad, as opposed to the pointed form in the bee and sawfly. It is finged with very short hairs at the terminal margin.

The paraglossa (p gl.) are present on the lateral sides of the ligula Each is clongated and lies closely by the sides of the median glossa. No haurs are present on it

In accordance with the feeding habits of the Iohneumonids, the maxille and the labum are closely associated with each other, and the fusion of the two glosse to form a single median organ may be ascribed to the habits of licking liquid food.

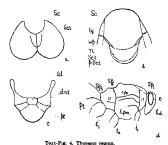
The labial palpi (l.p.) are much smaller than the maxillary palpi and are only four jointed. Each labial palpus is fringed with very small hairs on the sides, and presumably, as in other insects, performs the function of a sensory organ.

#### (b) The thorax and its appendages.

The thorax is the middle region of the body. This region bears the organs of locomotion such as the wings and legs. It is divided principally into three parts, namely the pro-the meso-, and the meta-thorax, which are firmly attached to one another. Each thoracic segment bears a pair of legs but the wings are leveloped only on the second find third segments. Besides these three segments, the first abdominal segment is incorporated in the thorax in all higher Hymenoptora. Therefore, strictly speaking, the thoracic region consists of four parts—the three thoracic segments and the first abdominal segment. This transfer of the first segment of the abdominal segment is aboven by Zandar (1810) in the case of bees and by Emery and Janet in arts as quoted by Packard (1898). This transferred segment is known as the median segment or propodeum.

A typical thoracic segment consists of a dorsal part known as the tergum or notum, a ventral part, the stemum, and the lateral parts, the pleura. The tergum, especially in the

meso- and meta-thoracic segments, are usually differentiated into two pieces and sometimes into four. These are termed, beginning from the anterior to the posterior, pre-soutum, seatum, seutlum, and post-soutulium. The sentum and seutlelum are invariably large and well-defined, but the pre-section and post-soutulium are usually very small and not clearly discernible. The pleuron is also differentiated by means of a suture, the pleuron status, into two parts, the anterior of which



a, b, c, ×18, d, ×4.

a, pro-notum, b, meso-notum; c, meta-notum; d, anterior portion of the insect from the lateral aspect.
 d= arcolar area, dni=dontiparel area; e= oyo; epm = epimoron;

on a reconstrate, and m continues a rate;  $m = \infty_0$ ;  $m = \infty_0$  count of the period of the period

is called the episternum and the posterior one, the epimeron. The sternum also is differentiated into an anterior part, the pre-sternum, and a posterior part, the post-sternum.

In X pedator the thorax is stout and yellowish in colour and has characteristic black dots on the dorsal surface. There are four such dots on the meso-notum, three being arranged in a semicircular way on the pre-scutum, the fourth one lying posterior to these, just in front of the soutellum. There is also a black spot on each of the lateral margins of the meta-notum, or the 'external area'. All these characters are important distinctive characters of the species.

#### THE PRO-THORAX

The pro-thorax is short and extends almost to the bases of the fore-wing and bears the first pair of legs. Its dorsal surface is covered with very fine hairs. The pro-notum (fig. 4.0) is narrow at the base and gradually widens in the posterior region. The antenor margin is very coneave and the base of the head rests in this concavity. The posterior margin is convex but is deeply notohed in the middle. The pronotum is on the whole differentiated into two parts only, the sentum (ec.) and the seutcellum (ecf.), of which the soutoillum is much the anger. The pre-leurum (fig. 4, p.p.) is oldong and very small anger. The pre-leurum (fig. 4, p.p.) is oldong and very small the pleuron are not distinguishable, as is the case in some other they have the properties of the pre-leurum in the prestermum is a triangular plate with its lateral margins partially covered by the lower margins of the pre-pleurue. It is not diffemntiated into anyther or the pre-

#### THE MESO-THORAX

The meso-thorax is the largest of the thoracic segments. It is closely punctate and sparsely covered with fine hairs. It bears the second pair of the legs and the front pair of wings

The meso-notum (fig. 4b) is a large and highly-convex sens. It is differentiated by two distinct transverse sutures into three parts, the soutum (sc.), the soutellum (sct.), and the post-soutellum (sc., sct.); the first of these is by fat the largest. In the postero-lateral regions of the soutum, there is a part of indistinct ridgeswishich are known as the notauli (sc.). On the lateral margins of the soutum, just-set the bases of the wings, there are certain selerites which are known as the tegule (Kirby). These selerites, as is well known, are found in the Lepidopterous and in some Hymenopterous insects only. The meso-soutellum is the highest region of the thorax. It is much shorter than the meso-soutum. The post-soutellum is very narrow and is not deeply buried under the seutellum as found in the bee (Snodgrass, sp. cit.).

The meso-pleuron (fig. 4d) is much larger than the propleuron. The pleural suture is distinct and is almost horizontal; the epimeron is larger than the opisternum. Unlike that in the bee, the episternum is not subdivided into two parts, nor the pleural suture is twisted, but the epimeron is differentiated into three parts by two fine transverse sutures, the lower one being very small.

The meso-sternum is oblong and slightly wider in the distal region. It is incompletely divided into three parts by two short but distinct lines. "Sternauli", or a pair of ridges in the junction of the sternum and the pleure. fully developed in other genera are totally absent in X. nedator.

#### THE META-THORAX (Fig. 4c)

It is slightly shorter than the meso-thorax It should be noted in this connection that there is no sharp line of demarcation between the meta-thorax and the fourth segment of the thorax, namely, the propodeum, as is found in some other Hymenopterous mesets. Previous authorities on the Ichneumonitie have used the torm 'meta-thorax' to denote both the true meta-thorax and the fused first abdominal segment and this momentature is also retained here. In fact, it is very difficult to say where the meta-thorax ends and the propodeum begins. The fusion of this first segment of the abdomen with the thorax is not complete in the saw-files. The meta-thorax beams the third pair of legs and the hind-pair of wings.

The meta-norum is broader in the proximal region, it has we obluge ridges whose nourse is constant in a species. It is strongly carlinate, the carms dividing it into several regions or arose. These are known, beginning from the proximal end, as the 'hasal area' (which is wanting here), the arcolar area (al.) and the posterior area figh.) The arcolar area is the central area and is quadrate in appearance. The two arose on the sides of the arcolar area samell and not differentiated into further regions as is the case in some other lethenumonide.

In striking contrast to these divisions of the meta-notum in the lchneumonida, we find that in bees, wasps, and ants the meta-notum is entirely undifferentiated

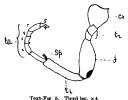
As a found in the bee, the pleural esture here also is entirely wanting. But strendt speaking it is very hard to say which region should be named the pleuron, as the true metathorax is very small and the prepodenum is fused with it: and since this latter is an abdominal segment, it has only two parts—drowal and ventral. Therefore, the part that may be termed as the pleural region of the meta-thorax is really a part of the pronoderum.

The meta-sternum is a very small plate and is void of any characteristic features.

There are three pairs of spiracles found on the thorax. Their exact position varies in different insects due to the result of adaptation to different modes of life. In beetles, which live in dusty places, the spiracles are concealed and cocupy a

ventral position in the thorax, and on the abdomen these are placed near the dorsal edge under the elytra. In the dragonlies the first pair is more dorsally placed than the second and third pairs, the other pairs lie concealed in the membranous fold near the external plate. In Rhynchota these are more or less ventrally placed. In Hymenoptera these are also hidden but generally have dorso-lateral positions.

In X. pedator the first pair of the spiracles are situated on the proximal region of the episternum, almost at its junction with the pro-pleuron (fig. 4d, sp, 1). The second pair (sp 2) are in the upper region of the membranous fold between the second mess-pleuron and meta-pleuron. The third pair (sp, 3) are the largest of the thoracie spiracles. These are placed on the dorso-



Text-Fig 5. Thurd leg. x4.

ex = coxa; f = fermur; sp = spines. In = tarsi, It = table:

ir = trochanter.

lateral margins of the meta-thorax It is really the propodeum that bears this pair of spiracles and those are, therefore, the true first pair of abdominal spiracles.

#### THE LEGS

The three pairs of legs are almost uniform in structure and shape. They are slender and long, and the surface is sparsely covered with minute hairs. When the thoracic segments are separated out, each is found to bear a groove, at the posterowattal comer in the pleuron, in which the base of the leg rests. This groove, however, is not visible when the insect is seen as a whole.

The principal parts of a leg. as in all insects. are the coxa, trochanter, femur, tibis, and tersus. Each leg in X. pedator has a black spot in the distal region of the trochanter and in

the same region of the femur but much larger; the base of

the tibise, the tarsi, and the tarsal claws are all black.

The third pair of legs (fig. 5) are stoutest and largest. The coxa (cx.) can be easily distinguished as separate from the thorax, although this is not the case in bees, beetles, and many other insects, where it is more or less flattened in a vertical plane and is immovably attached to the sternum and is therefore apt to be mistaken for a part of the thorax. On the other hand in some insects the coxa is articulated by a ventral sclerite, 'the trochantin', which lies in front of it and hinges loosely on the lower edge of the episternum, but a trochantin is never found in the Hymenopterous insects and is supposed to be fused with the sternum.

The trochanter (tr.) is quadrangular in shape and is divided into two equal parts by a suture. The femur (f.) is the largest and stoutest of all the parts in the leg. The femur of the third

leg is especially very much swollen.

The tibise (ti.) is a little thinner and longer than the femur with the distal end slightly thickened but there is no 'strigilis' or antenna cleaner, an organ which is very well developed in ants and bees It has two spines (sp.) at its distal end, near the base of the first joint of the tarsus.

The tarsus (ta.) is five jointed, having the two claws at the apical joint curved but not lobate or pectinate as are usually found in other species of the Ichneumonidse. Each tarsal joint is quite distinct, the first joint being the largest of all.

#### THE WINGS

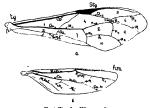
The wings (fig. 6, a, b) are hyaline and triangular in shape. They are uniformly pale yellowish. The fore-wings (fig. 6a) are longer than the hind ones and both are held close together by the hamuli, present on the hind wings described above.

The margins of the wings are known by different names, the anterior margin is called the costal, the distal one, the apical, the posterior one, the anal, and the proximal portion is known as the base of the wing. The base of the wing is generally known as the 'radix'. The scientes present on the meso-thorax covering the base of the fore-wings are denoted by the term 'tegulæ' (tg.). In the middle of the costal margin of the forewing there is a corneous mass known as the stigma (stg.). It is a strong muscle which assists in folding the wing.

The radices are flavous, the teguise are black in the proximal portion and flavous distally. The stigma is triangular and broad and is of dark-brown colour.

The typical insect wing, as is well known, has several long veins which are termed as (beginning from the costal margin and ending at the anal margin), Costa, Subcosta, Radial, Median, Cubital, and Anal (Comstock). The arese bounded by the wingveins are known as 'cells'.

Different authorities do not agree in the application of this system of naming to the veins in Hymenopterous insects. Many have adopted different nomenclatures in which the veins are designated by individual names regardless of homologies with the veins in other orders. In the description of the wing venations in the lohneumonidae we find that the descriptions and nomenclatures given by Morley (1913) do not agree to that given by



Text-Fig. 6. Wings, ×3.

a, the fore-wing: b, the hind-wing: nod-anal velocities of the size of the si

Comstock (1918.) I have here followed Comstock and also have given the corresponding names used by Morley.

The veins or nervures on the fore-wings are distinct and the cells are complete.

Near to the costal margin and running parallel to it is a prominent vein (fig. 6s, 6o.) which consists of the veins Costa. Subcosta, Radina, and Median, all fused into a single one. It passes through the beast portion of the stigma and meets the apleal margin. From the middle of the stigma, the radial sector vein (Re) is noticeable and gives two branches R<sub>p</sub> and R<sub>p</sub>, the laster one being very small. The second prominent vein

emerging from the radix and running through the middle of the ring is the Chylial vein (r.u.). It generally coalesces with the anal vein (voite signal). A branch of the Median vein passes through the cubital running between the stigms at the proximal end, and, the anal vein at the distal region. The median vein, as is usual, has four branches, of which the first one (M) meets the vein R<sub>4</sub> proximally and reaches the apical margin distally. The second one (M) at first running backward, i.e., towards the posterior side of the wing, also meets the apical margin.

It is to be noted in this connection that the first portion of M<sub>k</sub> (that as, the portion which runs to the anterior side) is named by Morley (1809) as the 2nd recurrent vein. This name, "recurrent voin" is also used by most authorities on the Ichneumonidas. This vein is a special characteristic found on the wings of the Ichneumonide only, and not present in the allied family Braconide which have much resemblance with the former family.

The vein  $M_{(1+2)}$  is a short one, lying just the opposite of M. There is another vein known as the radio-median (r-m), joining the radial sector on the dorsal rogion and meeting the  $M_{(1+2)}$  ventrally. The area bounded by the veins (r-m).  $R_{\rm c}$  and  $M_{(1+2)}$  is known as the 'arobot'. This area is almost like a parallelogram and not triangular, as stated by Morley, (1913).

The vein M<sub>2</sub> runs towards the anal margin meeting the anal vein almost at the anal margin. This voin is denoted by Morley as the first recurrent vein. The voin M<sub>4</sub> lies between the Unitial and the vein M<sub>4</sub>. The vein red, is a very small one running between the cubital (rat) and the anal vein (rnt). A small vein running parallel to the coast largely in the red, A small vein running parallel to the coast largely in the run runs from the radix and meets the anal margin. It is quite prominent and long.

The cells have also been given different names according to the veins that bound thom. For instance, the cell near the costal vein is called the costal (c<sub>1</sub>), that near the cubital vein, the cubital cell (c<sub>2</sub>), that adjoining the anal vein is denoted by the anal cell (c<sub>2</sub>), and so forth

In the hind-wing, the venation is much reduced. The costs is, however, noticed as a separate vein for a short distance, then it coalesces with the compound vein or 'serial vein'. (Constock) R.+M and meets the costal margin near the hamuli. The vein R.+M man the very compound the margin may be a serial vein'. The vein R.+M runs obliquely downwards from the costal margin and separates out after a short distance as the R., and M. This vein M is called by Morley as the second recurrent vein. The Cubital cell, passing from the radix, meets a branch of the Median and reaches the spical margin as the Cu-M., A short voin is seen, near the radix, joining the Cubital with the

R+M: this occurrence appears to be unique, as it has not been previously reported by any worker on the theneumonide. It seems to me that the Median voin was at the very beginning connected with the Cubital voin and then passing up joined the compound vein of Costs and Radius, and this short branch is nothing but a remnant of the Median vein. The first anal (Anl.) vein does not reach the appear maggin but ents a short of the contract of the median voin (M<sub>3</sub>) which portion, receive a branch of the median voin (M<sub>3</sub>) which portion, receives a branch of the median voin (M<sub>3</sub>) which portion receives a branch of the median voin (M<sub>3</sub>) which portion the receives a branch of the median voin (M<sub>3</sub>) which portion the receives a branch of the median voin (M<sub>3</sub>) which portion the receives a branch voin and this voin also median portion which we have a superior to the contract of the contract margin. Another small ron is also motioed under the 1st and voin, thus may be the 2nd anal vein.

The wing-cells on the hind-wing are not complete as those on the fore-wing. These are denoted by the same terminology as the previous ones.

#### THE ABDOMEN

The slidomen is the last or posterior part of the body and is connected with the thorax by a distinctly constrained stem, the petiole. It is broader at the base and gradually tapers in the distal region. It is colour is yellow. The abdomen in adult insects usually consists of ten segments, though all these segments are not always visible, a few being retracted at the posterior end. The abdominal segments have only dorsal or terpai plates and ventral or sternal plates. Bach abdominal segment is connected with the preceding and following segments by a large and flexible intersegmental membrane, which allows the segments great freedom of motion. Each tergal plate overlaps the following one, while the sternal plates are underlapped by the succeeding ones. The terminal segment corries the anns, whereas the opinings of the male and female reproductive organs are on the ventral surfaces of the nuth and eighth segments respectively.

In X. pedator, the male has eight visible tergites and sternites but the female has only eight tergites and six sternites.

The abdominal spiracles are situated on the lateral sides of the first eight tergal plates, counting the propodeum as the first segment of the abdomen. These are all minute, being much smaller than those on the thoracio region. The external openines are narrow sitts, indistinctly visible in dry specimens.

At the terminal end of the abdominal segment in both sexes, is found a pair of appendages, the styli (fig. 7, std.). They are small and are fringed with minute hairs. These are not at all segmented and have never been reported by previous workers on the lohneumonide. In a few species of the allued genus Pesudeugalta, that I have had the opportunity to examine, these appendages were not found.

#### THE GENTTALIA

The external appendages found near the genited opening as to their homologies is not yet unanimous. Unless the internal relations and the structures of the appendages are carefully investigated, one is apt to be led to false deductions. Hence, we find much difference of opinion among the workers on the genitalis in insects (side Newell, 1918).

These appendages naturally differ in the two sexes and often their structure in one species is quite different from that in the allied species or genera and hence they are very commonly used

in systematic work.

## (a) Male (fig. 7).

The male genital's consist of three pairs of appendages all borne by the ninth segment It must, however, be remembered that three pairs of genital appendages are not usually met with in all insects, often there are only two pairs (Pruchi, 1924). The three pairs of appendages in X. nedstor is one within

The three pairs of appendages in X. pedator lie one within the other, so at the most only two pairs are visible oxternally. Beginning from the outermost these are termed in all Hymen-opterous insects as etipes (d.). sagita. (e.g.), and spatha pairs are propertied in the second of t

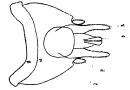
In view of the nature of the development of these organs, Pruthi (1924) compared them with the 'subgenital-plates', 'parameres', and 'aedeagus' of Homopters and other insects.

The outermost pair, or the stipes, are the largest of the appendages and are covered all over with minute hairs. Each stipes is a triangular plate, broader at the base and tapering in the distal region. The second pair, or the sagitta, are the smallest appendages and are hidden under the stipes. Each sagitta is almost oval in shape and is devoid of hairs, etc. The innermost pair, the penis or spaths (sp.), is moderately longer than the components of this pair are almost fused with each other and form a tubular organ, carrying the gonopore at the apex. This is the proper copulsatory organ.

There is a ring-like solocite between the bases of the genetalia and the ninth sternum. This structure is called the cardo (co). It is nothing but a part of the ninth sternum (André, 1881-95). Verhoeff, (1893), however, homologised it with the basel plate of Coleoptera. As pointed out by Pruthi, the basel plate of the Coleoptera is at an entirely different place than that occupied by the cardo in Hymnophere. It appears, therefore, that André (op. cit.) was correct in considering this solette as a part of the inith stermum.

## (b) Female (fig. 7).

The Ichneumonids lay their eggs on the surface or inside the body cavity of caterpillars which they paralyse by stinging. Owing to this habit the ovipositor is sharp, strong, and long. The ovipositor always remains protruded beyond the posterior



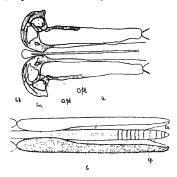
Text Fig. 7. Male genitalia, X 18, on = cardo; ps = spatha; st = style; VIII, IX = eighth and ninth abdominal segments.

extremity of the abdomen. In the bee and the wasp, as is well known, the ovipositor, or the sting, is situated in a specially modified place known as the sting-chamber from which it can be thrust-out at will, when occasion demands.

The ovipositor in X. pedator is about one-third the length of the abdomen.

The components of the ovipositor can be clearly distinguished; they are not so much complicated as those of the male genitalia. Here also they consist of three pairs of appendage, the anterior, posterior, and lateral ovipositor lobes; or, the ventral, inner, and dorsal valvulae respectively (Walker, 1919; 1922). These three pairs are generally known as the lancet (in,), sheath and the lancet-paipi (ip) respectively (Zander, Snodgrass, etc.). Those appendages lie close to each other. The first or the anterior lobes, are borne by the eighth sternum near its posterior margin; the other two pairs, namely, the posterior and the lateral lobes are borne by the ninth sternum.

In some insects, the three pairs of appondages comprising the ovipositor remain distinct and separate from one another, as



Text Fig. 8. Fomale genitalia, K 9.

a, nmer portion , b, outer portion;
b.s=bulb of the sheath; ln=lancet; lp=lancet palpus;
o. pl=coblong plate; q. pl=quadrate plate.

is the case, for example, in the common grasshopper. The homologies of the appendages of the Ichneumonide and the Grasshopper may be stated thus: the lancets or the anterior lobes are homologous to the ventral valvules, since both are the appendages of the eight segment; the sheath or the posterior lobes is equivalent to the inner valvule and the palpt or the lateral lobes represent the doreal valvule or the outer groupophyses of the ninth segment.

The lancets (or the anterior ovipositor lobes) are long and sharp. It is with this pair of appendages that the insect pieroes the body of the victim and deposits her eggs therein. Each component of the lancet is attached at its base to the triangular plate by two arms which curve outwards. On the ventral side of the lancet a canal or deep groove runs throughout tits length. It is through this canal that the eggs are said to pass out. The lancet is ringed in the distal region and, unlike

that in bees and wasps, has no barbs at the apex.

The second pair of the ovipositor lobes, or the sheath, are situated very close to the lancet and cannot be separated or even distinguished from the lancet in the dry specimens. These are the shortest of all the appendages of the female genitalia. The base of the sheath is also prolonged at the sides forming what are known as the arms of the sheath, which are borne by the oblong plate, as stated before. The third pair of the ovipositor lobes, or, the lancet palpi, are long and wide. The lancet-palpus lies on the sides of the lancet. Their extremeties which project beyond the abdomen are fringed with minute hairs. The lancet-palpi protect the lancet from external injuries and shocks. These may also act as sensitive organs, as the case in the bee, where they enable her to know when the abdomen is in contact with a suitable prey on which she may use the sting The lancet-palpi in X. pedator are like elongated rods, uniform in appearance throughout the length, thus resembling those in the grasshopper.

At the base of the ovinositor there are three chitinous plates which are believed to keep the ovipositor in an elongated position. These plates are known respectively as the quadrate plates (q, pl), oblong plates (o, pl), and triangular plates. In X. pedator the triangular plates are hidden under the quadrate plates and, therefore, are not visible unless the latter plates are removed. The quadrate plate overlaps the distal half of the oblong plate, and covers the triangular plate. Zander (1911) has shown that the triangular plate is a part of the eighth sternum in the case of the bee, and this is believed to be the case in all Hymenopterous insects. The fact that it is connected with the lancet also supports the view that it is a part of the eighth segment to which the lancet belongs. As the quadrate plate is overlapped by the spiracle-plates of the eighth tergum, it may appear to belong to the eighth sternum, but, Zander, who studied its development in the bee, has showed that it is a part of the ninth tergum. In many adult Hymenoptera too, the quadrate plate is found to be a tergal piece (Snodgrass). It is almost oval in shape, recembling that of the bee. The oblong plate belongs to the ninth sternum. Its shape in X. nedator is strikingly different to that found in bees and wasps. Here it is much smaller and rod-like in appearanc. It is partly hidden under the quadrate plate where it is bifurcated. It is attached to both the sting palpus and the arm of the sheath.

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## New Species of Indian Plants

## By E. BLATTER

The plants here described were gathered in the Bombay and Madras Presidencies and Mount Abu. All the descriptions have been prepared from live specimens.

#### Ranunculacea

THALOTRIMO OBOVATUM Blather ep. nov. [Ranunculacea similis Thelictro Dalzellii Hook. sed differt caulibus non sulcatis stipulis fambriatis, sepulis late obovatis unquiculatis quam staminu paullum brevioribus, filamentis applanatis, ovariis distincte stipiatis, compressis]

An erect herb. Roots fibrous. Stem up to 45 cm. high, slightly flattened on one side, not grooved, light-coloured, glabrous. Leaves trifoliolate except the topmost which are 2-foliolate or 1-foliolate, very slightly sheathing at the base; leaflets about 3 cm. diam., glabrous, almost round or kidneyshaped, with a deep acute sinus, margins orenately and irregularly lobed and dentate; nerves and veins prominent above and beneath; petioles of lower leaves 6 cm. long, on the upper side slightly or deeply or not at all grooved in the same plant, sometimes grooved only in the lower part, glabrous; petiolules up to 3 cm. long. Stipules adnate to the petiole and united on back opposite the leaf or only adnate to petiole, up to 1 cm. long, oblong-acute, broad to narrow, fimbriate, membranous, strongly nerved. Flowers 8.9 mm. diam., in small leafy panicles crowded at the ends of the branches, delicately sweet-scented; leaves of panicles dvate-acute or blunt with very small stipules which don't unite opposite the leaves. Sepals usually 4, sometimes 5, white, broadly obovate, clawed, strongly nerved, 4-5 mm. long, 3 mm. broad, slightly shorter than the stamens. Petals O. Stamens many; filaments flat, tapering towards base, twice as long as anthers; anthers basifixed, club-shaped. Ovary on a stalk 2.5 mm. long, broadly oblong, dark green, compressed, with a long neck almost as long as the ovule-bearing part, neck deeply furrowed on dorsal side, light green, almost transparent, curved outward at tip like a beak (not hooked) with stigmatic surface on ventral surface. Ovule oblong obovate. Fruit not ripe.

Locality.—Bombay Presidency: Aukali, half-way between Panchgani and Mahableshwar, about 4,100 ft. altitude, on edge

of Yenna valley in very exposed position, apparently very rare

(Blatter P26 type).—Flowered 12th July, 1925.

Not.—I have not been able to place this species in any of the 3 sections given by DeCandolle. Resembling T. Datell's in most characters it should belong to Ruthatierum DC, but the compressed achenes exclude it from that section. The leaves, again, remove it from Physocorpum DC. Future monographers of Thalietum may have to make a change in the division of the senus.

## Capparidacere

CLEOME ASPERBIMA Blatter sp. nov. [Capparidacea, similis Cleomi simplicifoliæ Hook. f. and Thoms., differt tamen forma sepalorum necnon petalorum, petalis strigosis, pedicellis tolis hispidis, numero staminum. flamentia aptic minime incrassalis.]

Annual, up to 30 cm. high, erect or slightly ascending, Stem rigid, furrowed, slightly branched, densely covered with short rigid spinulose hairs arising from stout glandular bases on the ridges as well as in the furrows, leafy all along. Lower leaves 3-4 cm. by 1 cm., lanceolate-acuminate, acute at base with midrib above depressed and prominent below, strigges on both surfaces, with longer and stronger spinulose whitish bulbousbased hairs on the midrib, petiole 2-3 mm. long; upper leaves from about the middle of the stem narrowly linear-lanceolateacuminate, sessile or subsessile, about 3 cm. by 3-5 mm., otherwise like the lower. Flowers purple, solitary in the axils of leafy bracts, forming a long lax raceme for the two upper thirds of the stem. Pedicels filiform, about 2 cm. long, uniformly thick, erect or slightly ascending in flower, horizontal or depressed in fruit, spinulose-hairy the whole length, but more so immediately below the flower. Stamens 8-15; filaments uniformly thick throughout. Sepals 4, narrowly triangular-acuminate, a little more than \(\frac{1}{2}\) the length of the petals, densely pilose on back and margin. Petals 4, 5 mm. long, oblanceolate or spathulate, rounded at apex and provided with a prominent mucro, median line of back strigose and sometimes also the margin. Capsule up to 22 mm. long, including the beak 2-3 mm. long, green, subtorulose, about 2-3 mm. diam., straight, striate, slightly flat, glabrous; seeds round-kidney-shaped, greyish,

2 mm. diam., smooth. No gynophore.

Locality — Dhulia, W. Khandesh of the Bombay Presidency, collected by Mrs. Helene Hedberg. (No. 7670, type.)—
Flowered and fruited at the beginning of November, 1928.

Note.—It the figure of the seed of Polansias busporensis Munor (Wight Lo. s. 1072), a synonym of Clome simplicifolia, is correct, we can point out another good difference between C. simplicifolia and the new species. In the latter the seed forms a completely closed ring, whilst Wight's figure shows an open ring.

## Caryophyllacea

SPERGULA ROSRA Blattes ep. nov. [Caryophylineca. Folia opposita, subulata, longs hivatea tersua apiene Sispula estacea. Sepala 5, outo-lancolata, acuta, paullum inaqualia. Flores in omes parieulata pedunealisi. Patala rosea, epathulata vel anyuste oblencolata, oltuca, basi longe unquisulata, sepala multo longiora. Stamina 6, cum petales atlemantia; filamenta petalis ologiora, stamina oposita, statisti atlementa; filamenta petalis longiora. Semina ovoldro-globas vel quriformia, formose reticulata secundam hisea horiostalea, nigro-citerargenția.]

A small herb. Leaves opposite, sabulate, stipulate, long-hairy towards tip. Stipules long-staceous. Sepals 5, ovate-lancoclate, acute. lightly unequal Flowers in pedunoited narrowly oblanocolate, obtuse, longer than the sepals. Stamens on arrowly oblanocolate, obtuse, longer than the sepals. Stamens of Alberta Stamens as long as the pedada ovoid globase to pyriform, beautifully reticulated in horizontal rows, black, with a greyish horizontal

Locality — Bombay Presidency: Igatpuri, in grass-land near lake (Hallberg No. 1979), type, in formalin, St. Xavier's College, Bombay).—Flowered and fruited in October, 1917.

# Papilionuceæ

INDIGOFERA MONOSPERMA Blatter sp. nov. [Pertinet ad sectionem Sphæridiophoræ. Herba nana procumbens ramosa Cau-les ramique hirsuti pilis medifixis. Folia pinnatim 3-foliolata exstipellata; foliola integra, obovata, obtusa, hirsuta, facie inferiore glandulis obsita viridibus; foliolum terminale 16 x 9 mm., lateralia 10×8 mm., rhachis petiolusque hirsula. Stipula minuta, subulata, hirsuta. Stipella O. Racemi densi, breves, axillares pedicellis brevissimis. Calyx minutus, 5-lobus lobis fere ægualibus subulatis, hiroutissimis. Pelala sub æguilonga; vexil-lum ovatum, obscure mucronatum, 3·5×2 mm., brevissime unquiculatum, roseum intus, extus flavescens et hirsutum; alæ oblique spathulatæ, obtusæ, integræ vel apice minutim serrulatæ, glabras, rubras; petala carinas parte media connata, recta, virescentia hirsuta excepta parva parte purpurascenti calcaribus vicina; calcaria parva, acuta, alba. Stamina diadelpha antheris uniformibus apiculatis. Ovarium 1-ovulatum, pubescens, stylo filiformi, glabro, stigmate capitato. Legumen parvum, ovoideum, goutum, 2.5 mm. longum, indehiscens; semen 1, parvum, aliguomodo compressum, glabrum.]

A small procumbent herb, about 7 cm. high, branched from cresping part. Stem and branches terete, with numerous appressed medifixed hairs, tips of hairs curved upwards; hairs of younger parts longer, fixed along their lower part, pointing upwards. Leaves pinnately 3-foliolate, exstipellate: leaflets entire, obovate, obtuse, hairy on both surfaces with hairs chiefly more or less basifixed, dotted with green glands beneath, dots turning black when old; terminal leaflet 16 by 9 mm.. lateral 10 by 8 mm.; rhachis 2.5 mm. long, hairy; petiole flat above, hairy. Stipules minute, subulate, hairy. Flowers in dense, short, axillary racemes; pedicels very short, up to 1 mm.; peduncle and pedicels hairy. Calvx minute, 5-lobed, lobes about equal, subulate, very hairy, hairs basifixed. Petals about equal in length; standard ovate, obscurely mucronate, 3.5 by 2 mm., with a very short claw, pink inside, yellowish and hairy outside; wings obliquely spathulate, obtuse, entire or tip minutely serrulate, glabrous, red; keel-petals connate with their middle portion, tip and base free, straight; spur small, acute, white, portion in front of spur glabrous or nearly so, purplish, rest of keel-petal greenish, densely hairy outside with a few dark dots. Stamens diadelphous; anthers uniform, apiculate; pollen dark vellow. Ovary 1-ovuled, pubescent; style filiform. glabrous; stigma capitate, yellow. Pod small, ovoid, acute, tip bent down, style persistent, 2 prominent ridges on top far apart, ending about 1 down the pod from tip; length 2 5 mm.; walls very thick; pod obviously indehiscent. Seed 1, small, somewhat compressed, glabrous.

Locality — Bombay Island: Matunga (Hallberg No. 1212, type).—Flowered and fruited in November, 1916.

Sutthia Oliolathia Blatter sp. non [Popilionaesa accadens ad Smithiam salsuqinsam Hanco a qua tamen distingui potest folisi pubescentibus, stipulis triangularibus muoronatis sine auviculis, forateis non outso-lancolatis, braceolis minoribus aprice obuses, forbise paucis, culyies forentis islabi superiore suborbiculari, corolla alba, fructus calyce subgloboso, seminibus punciatis.]

A small, erect herb, about 6 cm. high, branched Stem and branches purplish, glabrone scopet for a few long spreading stiff hairs. Leaves abruptly pinnate; leaflets 2 pairs, 6.5 by 3.5 mm, first pair obovate, second obliquely obovate, tip rounded, downy on lower surface, margin bristly as is also the single nerve beneath, otherwise glabrous; rhachis 1.5 mm., ending in an acute tip 1 mm. long. Petiolo 2 mm. long with 2 or 3 hairs similar to those on the stem, purplish. Stipules 2 by 1 mm., triangular, mucronate, membranous, purplish abrupt similar to those somewhat smaller. Bractocles 2, immediately below ealyx, diliptic-oblong, 2 by 1 mm., membranous provided by the state of the state o

anastomosing, texture membranous. Calyx in fruit much enlarged, turgid, almost globose, 9 mm. long, 6 mm. diam. Corolla white, turning yellowish; lobes about equal; standard by 4.5 mm, clawed, with a few long hairs along midrib on back wings obliquely oblong, clawed; keel-petale connate only near their apex at the broadest part, with a short spur 15 mm. from the base. Stamens in 2 bundles of 5 cach; alignity twisted, gastoous; avjet filtorm, glabrous. Fod filtores, glabrous, fod for the standard state of the standard state of the standard state of the standard state of the standard standard

Locality.—Bombay Harbour: Uran, moist ground in watercourse near village (Hallberg No. 14567, type).—Flowered and

fruited in January 1917.

## Rubiaceæ

OLDBNIANDIA CLAIVA Blatter sp. nov. [Rubiacza, pertinens at Oldenlandiace sectionem Kokautiam. Herba nama non-ramosa, quadrangularia Caulie anguli pilis recurvis instructi. Folia decussala, linari-lancolata, esabra supra et in nervis infra, marquuibus breviter spinozis. Stipulae membranaceae crateriormes, interpetolares pluribus munitae estis. Flores prociazillares sub anthesi clausi. Calycis segmenta 4, setacea. Corole tubus longus, floit 4, cubacti, concavi, vidul carnosi. Slamina 4, inclusa; filamenta brevia, crassa; anthere dorsificz, purpura em. Stylus filiornes, stigmata 2, permagna, recurva. Fructus am longus (eine calycis dentifus), aliquantulum trigonus, hirottus speciatis in parte superiore; calycis efectae distantes.]

A small herb, about 3 cm. high. Stem woody and ascending below, then erect, quadrangular, not branched, with rourved hairs on the corners; internodes very short. Leaves decussate, sessile, narrowing to the base, crowded, 2.7 cm. long, 5 mm. broad, linear-lancoolate, scabrous-hairy above and on the nerves below, margined with short spine-like hairs pointing outwards, nerves on 15 wer side distinct. Skipules broad, outp-like, membrancus, interpetiolar, hairy, with several (about 4) long bristles which are glabrous. Flowers axillary, several in each axil, all of which develop. Calyz-teeth, 4, 1.5 mm. long, with upourved stiff spinulose hairs. Corollar tubular, 5.5 mm. long, closate, the top with a few erect stendght spinulose hairs. On mm. long; with a few erect stendght spinulose hairs. On mm. long; very fleaby, especially the thip, All flowers observed, young and old ones were closed and did not open easily testivolitation. Stamens 4, inserted just below the junction of two oorelise-teeth; filaments short, stout; anthers 2-celled, oorsifixed, pupile, reaching more than half way up led.

corolla-teeth. Style filiform; stigmas 2, very large, recurved. Fruit (without teeth) 4 mm. long, slightly trigonous, 3-celled, hairy, especially in the upper part; calyx in fruit slightly enlarged, teeth distant.

Locality.—Rajputana; Mount Abu: Gora Chapra, on sandy ground (Hallberg and Blatter No. 15643).—Flowered and

fruited in October 1917.

OLDENLANDIA SEDUWICKII Blatter sp. nov. [Rubiacea. Pertinet at sectionem Gonothece Accedit ad O. paniculatam Linn. sed distinguitur foliis ad basim caulis brevissimi acervatis necnon pseudo-verticillatis ovatis, pedunculis e supremo foliorum

veritcillo surgentibus, corollæ tubo minimo.]

A small annual. Stom almost 0. Leaves crowded at the base of the stem, falsely whorled, ovate. 3.5 by 2.5 cm., obtuse, narrowed into the very short petiole, soabrid, hirsute. Peduncles many from the crown whorls, very slender, 10 cm. long, hirsute with short spreading hairs, lazly trichotomously branched; citimate pedicels 12 mm long. Flowers small, white. Orolla-tube almost 0; lobes 4, narrow, stellately spreading, with many erect monilatorm hairs in the throat. Stanzane 4, erect; anthers opening by slits. Orany 2-celled, broad as long, opening by transverse slit in crown; cally technique, distant, below the protruded top of the capsule. Seeds minute, distant, below the protruded top of the capsule.

Locality.-N. Kanara: Karwar, in wet place in evergreen

above the sea (Sedgwick No. 6653, type).

Note: The new species may prove in course of time to be one of those which have been included by J. D. Hooker (Fl. Br. 1nd. 111, 69) under O. pasiculata Linn. More material and from different localities is required before we can settle the question.

#### Acanthacea

JUSTICIA HEUROCARPOIDES Blatter sp nov. [Acanthacea tribus Justiciarum subtribus Eujusticiarum. Valde similis Justicia heterocarpa T. Anders sectionis Calophanoidis, distinguitur tamen tota planta necnon folis multo maioribus, petitolo jusens olista adulto pubescenti brateis nullis, categotis duabus või multis, caliquis segments valde glanduloso-hireutis et margine searoinise et olistisis, cappula claustal.

A straggling herb up to 1 m. high, stems and branches very leader, "Gengled, pubecant," internodes very long, reaching up to 10 cm. Leaves opposite, up to 6.5 by 2 cm., on both surfaces and margins shortly hairy, entire or substatics, obsourely waved, nerves prominent beneath; peticle 2.5 cm. long, with a narrow groove on the ventral side, dilisks when young, pubescent when old. Flowers sessile, clustered in the saile of the leaves. Bracks absent. Bracketole 2 to cosh flower

or absent, minute, subulate, hairy. Calyx in flower 3 mm. long, in fruit 5 mm., divided nearly to the base; lobes 5, subulate, narrowly scarious-margined, very glandular-hairy and ciliate. Corolla 4.5 mm., tube about half the length of corolla, cylindric; upper lip half as long as the lower, not as broad as the midlobe of the lower, lower lip much the largest. spreading, 3-lobed, lobes rounded, midlobe largest, pink, with an angular purple spot at the base, both lips pubescent outside. Stamens 2, included : filaments glabrous : anthers 2-celled, cells spirally twisted, yellow, opening longitudinally, the smaller cell placed much higher than the larger, the lower cell spurred with a narrow, white appendage; pollen oblong-subglobose. Staminodes 0. Style filiform with a few long hairs in its lower part; stigma capitate, oblique. Fruits dimorphous; the normal one the ordinary capsular type of the family : 2-valved, 2-celled, clavate, pointed, 5 by 1.5 mm., splitting elastically from the pubescent tip, somewhat compressed, the surfaces with 2 shallow grooves in the form of a cross. Seeds 4, on short retinacula, 0.75 mm. long, obliquely cordate where it is attached, somewhat compressed, brown, covered with tubercles, the longest of which are collected in a row on one of the faces. The abnormal fruit is a nut, longitudinally compressed, apparently indehiscent, covered with 4 high and 2 slightly lower ridges divided like a cockscomb, divisions densely clothed with minute inturned-curved spines, the whole forming an ellipsoidal body somewhat stretched longitudinally, 4 mm. long. Soed 1, large, 1.5 mm. long, brown, attached near the base to the retinaculum, obliquely ovoid, very little obliquely compressed, cordate at the point where it is attached, low ridges running down the whole length of the seed, otherwise perfectly smooth,-Both kinds of fruit found in the same axil, both are of about equal frequency.

I am not sure whether this species is a good one. It certainly resembles Justicia Aletrocarpa very much I leave it to others to judge whether the points mentioned justify the making of a new species. Not having seen, the type-specimen of J. Asterocarpa I had to rely entirely on Assertitions which in this family are not always quite reliable. It is not impossible that a comparison of the type-specimen of J. Asterocarpa with my description may reveal other differences between the two species. If, however, they should prove identical we shall be happy at the thought of having given a detailed description from a live specimen

Locality.—Mount Abu: Shergaon (Hallberg and Blatter No 22857. type).—Flowered and fruited in October 1916.

STROBILANTHES HALLBERGII Blatter sp. nov. [Acanihacca sectionis: Eustrobilanthis. Habitum refert Strobilanthis callosi Neces et multis ez partibus etiam structuram morphologicam sed differt bractetis late ocasis non viscosis, calgois expments linearibus

paullum tantum incrassalis in fructu, ovario subglabro, seminibus multo minoribus rectangularibus basi obliquis omnino glaberrimio 1

A large shrub, up to 3 m. high Stem and branches rather alender, quadrangular, quadrisulcate, with a few warts, thickened at the nodes, greyish, internodes of branches 7-8 cm. long. Leaves opposite, ovate elliptic, acuminate, running down into the petiole, with dentate ciliate margin, up to 25 cm. long, about 1 forming the winged petiols, below and above the inflorescence smaller with much shorter petioles, both surfaces rough, especially the upper which is strongly lineolate and generally with cystoliths which in dry specimens are stellately arranged with a stiff bristle in the centre of each cluster, upper surface dark green, lower paler; main nerves 12-15 pairs, prominent, with short stiff bristles below. Spikes obtuse, strobilate, about 10-flowered, generally 3 together on a common almost round peduncle about 4 cm long and thickened at the junction of the individual peduncles where there are 2 opposite, ovate, obtuse, entire bracks with broad bases, connected by a ring, with numerous cystoliths visible when dry and stellately arranged. 8 mm. long, 4 mm. broad. Lateral peduncles 2, central 3 cm. long with a pair of bracts at a thickened node about 1 from the top, similar to the last, but 10 mm. long, 7 mm. broad and with a narrower base. Bracts densely imbricate, one for each flower, broadly ovate, strongly vaulted, rounded at the apex, entire, with numerous cystoliths visible when dry and not stellately arranged, not sticky, pale green, 2 cm. long, almost as broad. Flowers sessile. Calyx sub-equally 5-partite almost to the base, segments linear, entire, appressedly hairy, veined, 17 mm long, 2.5 mm. broad, slightly enlarged in fruit. Corolla purple, 40 mm. long, glabrous outside, with long yellow hairs within, especially at the place where the anthers of the longer stamens are resting, lobes subcqual, spreading, tube about 20 mm long, ventricose, lower third cylindric part 7 by 2 mm. Stamens didynamous, included; longer filaments 10 mm. long, bearded on one side, shorter ones 4 mm. long, glabrous; anthers oblong, yellow, 2-celled, muticous. Ovary 2-celled, subglabrous, cells 2-ovuled; style linear, 20 mm. long, with long stiff hairs directed upwards; stigms with one minute rudimentary branch and one 2 mm. long, linear. Capsule much flattened, 16 mm. long, 7 mm. broad, brown, 2-seeded. Seeds flat, very thin, rectangular, with an oblique lower part and a minute tip, brown, glabrous, 7 mm. long, 4 5 mm. broad.

Locality.—Mount Abu in Rajputana: Behind the low ridge N.E. of the Usrat valley while not a single flower was observed on the opposite side of the ridge (Hallberg and Blatter No. 22675, type). Flowered 27th October, 1916. That year

was a year of general flowering.

Vernacular name. - Gahrai.

DICLIPTERA ABUENSIS Blatter sp. nov. [Acanthacea tribus Justiciearum aubtribus Eujusticiearum. Affinie Dicliptera micrantha Nees, differt tamen cymis multifloris, floris labio inferiore integerrimo mucronato, stigmate cavitato oblique.]

integerrimo mucronato, sisgmate capitato obtiquo.

A shrubby, straggling, much-branched plant, up to 50 cm. high. Stems and branches obscurely angular, striate, with short, longitudinal raised lines Nodes slightly hairy. Leaves opposite, petioled, ovate, acute, subentire, sparingly hairy with short stout hairs on the margin and longer ones on the nerves beneath, very variable as to size, largest observed 5 by 2.8 cm. petiole up to 1.5 cm., lower surface lincolate. Flowers in dense axillary cymes, generally 2-3 clusters in each axil, each with about a dozen flowers, with a pair of common bracts 6 by 0.5 mm.. subulate, hairy, margins ciliate; sometimes those clusters form a compound cyme with branchlets up to 2 cm. long. Flowers sessile, 2 together of which I may be rudiment-ary. Bracts 2, opposite ovate-lanceolate, cuspidate I larger 8 by 2 mm. 1 smaller 5 by 1.5 mm. with broader base, both with a densely ciliate and scarious margin from the base, on the longer for about 4 of its length, on the smaller for half its length. rest of margin and nerves on the back with short, scattered hairs directed towards the tip, each pair of bracts enclosing generally 2 flowers, each with 4 bractcoles. Bractcoles subequal, 5 by 1 mm., lanceolate-acuminate with scarious margins from the base to above the middle, margins densely long-ciliated from about the middle to the tip, dorsal side and especially the scarious part with numerous minute sometimes glandiferous short hairs and a line of longer hairs in the middle. Calvxlobes 5, 3.5 mm. long, subulate, minutely hairy with a few longer cilia. Corolla 4 mm. long, tube 2 mm., white, glabrous, limb small, deep pink, 2-lipped, very hairy on the outside, lips entire, upper rounded, lower entire, mucronate. Stamens 2, one larger anther placed below a smaller one, both opening longitudinally: filaments glabrous, rather stout : pollen globoseoblong. Ovary pubescent upwards; style filiform, 2.5 mm. long; stigma capitate. oblique. Capsule yellowish, 4 by 1.5 mm., placentas separating elastically from the base. Seeds 4. suborbicular, compressed, brown, 1 mm. diam., covered by numerous short, stout, capitate hairs.

Locality.—Mount Abu, Dhobi Ghats (Hallberg No. 22856, type). Flowered in November 1916.

LEPIDAGATHIS NANDAKRRIS Blatter sp. nov. [Acauthacse, folio opposite, esseild, eligino-lanceolat, 3-nervon, in marginibus necnon nervo subtus medio minutisnime epinoso-serrulata. Flores in spicia densie unidateralibus dispositi. Sprica multuc dense [ascialatase ad redicem et aliquinatusm altius in parte ramorum foliis destituta. Bracteca dense imbrivatee, fertiles quidem glabrae, etetene unten hiruluie. Bracteclose dimorphae.

Calya 5-partitus fere usque ad batim; segmenta apice spinosa, nomia intun hierutissiona, minimum etiom in margine cristosa, nomia intun hierutissiona, minimum etiom in margine cristosa, caliguantulum. Labitum superius integerienum, inferius 3 tolopais nolo internedio cristosa, ideralibus undutate vol subintus. Stamina inclusa. Antherarum lobi basi acuminati. Stylus basi et in tinea acendenti glandulorsa. Copula duorum seminum ocato-conico-acuta. Semina pilis albis muculagineis clasticis cooperta.]

A prostrate herb, woody below, branched from the root. Branches up to 30 cm. long, glabrous, creeping, opposite leaves running down to next node in 2 pairs of narrow wings, those from opposite leaves nearly meeting. Leaves opposite, sessile. elliptic lanceolate, 2 cm. long, 6-7 mm. broad, margins minutely spinous-serrulate, similar minute spines on midrib beneath; nerves 3, midrib very prominent beneath with 2 very narrow wings making it appear quadrangular. Flowers in dense onesided spikes 2 cm. long, 1 cm. broad at about the middle. Spikes densely fascicled near the root or a little higher up on the leafless part of the branches; flowers in 2 rows of barren bracts. Bracts densely imbricate, yellowish: barren bracts 12 mm, long (including spine of 4 mm), 3.5 mm. broad, unequal-sided, top from which the spine rises abruptly ciliate. outer surface minutely appressedly hairy; fertile bract greenish glabrous, 13 mm. long, 7 mm. broad tip less pointed. Bracteoles dimorphous: outer bracteole stiff, coriaceous, top suddenly contracted from which a spine rises abruptly, 15 mm. long (including spine of 7 mm.), 7 mm broad, very hairy on the atrong keel, less so on one side of it, glabrous on the other, ciliated. inner bracteole stiff, corisceous, vellowish, 11 mm, long, 2 5 mm, broad, hairy outside and also inside near contraction, tip much recurved. Calvx up to 9 mm. long in flower, to 10 mm, in fruit, 5-parted nearly to base, the 2 larger outer segments 1.5., mm. broad, the lower segment 3 mm. and the 2 lateral segments 1 5 mm., all very hairy inside, the smallest also on margins and, though less so, on the outside; all have an acutely triangular. flat, stiff tip. Corolla 10 mm long; lower part of tube 5 by 1 mm . cylindric, abruptly narrowed at base, white, above is a flattened portion, 2 mm. long and broad, at the base of which are 4 small flat apurs. 2 on each side and 2 below. The hase of upper surface spotted with pink, colouration otherwise like that of the lips. Upper lip 2 mm. long, entire; at some distance from the anterior margin there are inserted some very long stiff hairs spirally twisted. Colouration: Outside yellowish mottled with light brown and purple, inside yellow, transversely mottled and striped with brown. There is on the inside a narrow longitudinal slit with winged margins, not reaching the anterior margin of the lip. Lower lip 6 mm. broad, 3-lobed about half-way down, midlobe the largest; margin of midlobe crisped, of the lateral ones waved or subentire; each

lobe has a tuft of hairs on the outside, similar to those of upper lip. Colouration: Outside faint lilac striped downwards longitudinally with pale brown and purple, inside faint lilac, with some darker spots, along the midline a row of large yellowish brown spots and along this row 2 lines of hairs on each side. much shorter than on the outside Stamens 4, didynamons. included, inserted a little higher than the ring of spurs on lower part of throat, filaments short, yellow, glabrous; anthers 2celled, one cell a little higher than the other, cells flattened. attached near tip, purplish, glabrous, slightly divergent, base acuminate; pollen oblong-cylindrical Ovary small, ovoid, glabrous, 2-celled, flattened, each cell 1-2-ovuled. Style 7 mm long, filiform, glandular at base and in a line along the style, long-hairy upwards along the same line, the line not reaching the stigma. Capsule (young) acute at apex, compressed, glabrous, 2-valved, 2-celled. Seeds 2, one in each cell, densely covered with white mucilaginous elastic hairs.

Locality.-Bandra, near Bombay (Hallberg No. 74,501,

type). - Flowered in November 1916.

There is no doubt that this species belongs to the group of Lephagathis which comprises the species cristate Willd, Hamslomiana Wall, and mitts Dalz. It combines characters which are peculiar to seach, but does not agree in the totality of characters with any of them. It is a very distinct apecies. Apart from many other details it can certainly be distinguished by the dimorthous bracts and bractcoles.

Lepidacatus Sumitis Blatter sp. nov. [Acendacae Aliquibus in partibus Lepidagathen cristalam Willd, neach Aliquibus in partibus Lepidagathen cristalam Willd, neach Lamidum Dalx. refert, distinguiur tamen a priore folisi binaricalancolatis undique hirausis, bratea unica epathulata accordinate value and basin d-partius, parte corollac infectore lagentinis unque ad basin d-partius, parte corollac infectore lagentinis onerosa, labio superiore breuseimo, seminibus oblique cordatis, a posteriore adem differt brateciolis inacqualibus apine spinosis, calguis segmentis omnibus apice spineacentibus perfecte liberis unque ad basin f

A prostrate herb, woody below, branched from the root; root very stout; branches slender, creeping, up to 26 cm. long, glabrous, thickened at the nodes, soutely quadrangular (almost with wings which are green). Leaves opposite, essells, linear-laneoolate, acute, obscurely undulate, all over with short, siff, stout hairs, especially on the margin and on the necrost beneath, midrib depressed about the compact of a samighous, very dense mass just above, the root, 5 cm. diam. (the spikes eannet be clearly distinguished and they are not disagreeable to touch). Bract 1, spathulate, herbaseous, 10 by 3 mm., apar rounded, very long-hairy all over. Bracteoles 2, the larger 10 mm. long, 3 mm. broad

at base, tapering, obliquely boat-shaped, very thick, tipped with a straight, round, hard spine about 1 mm. long, along the keel and at the base outside as well as along the whole margin very long hairy, inside glabrous; smaller bract 7 by 1.5 mm, symmetrical, otherwise like larger one. Calvx in flower 7 mm. long, in fruit 11 mm., 4-partite to the base; 2 outer segments larger, upper obovate, 2.5 mm. broad, lower similar in shape but slightly bifid, inner segment very narrow, linear-lanceolate, all segments with a stout, round, stiff spine, all densely hairy all over with long white hairs. Corolla 10 mm. long, lower part 3.5. mm. long, glabrous, white, bottle-shaped, 9-nerved, the nerve running out into midlobe of lower lip the strongest, a greater interval between the nerves on opposite side of tube; upper ventricese part 2 mm diam., 2 mm. long, glabrous, yellowish, with 6 faint nerves and 2 oblique, faintbrown stripes above, 3 strong nerves and a few brownish spots below, lower end of ventricose part ending in 4 small sacks, 2 corresponding to lower lip. 2 on the side. Upper lip very short, 1.5 mm. long, patently hairy outside, glabrous inside, only very slightly notched at tip where there is a tuft of short hairs. Lower lip spreading, 3-lobed, midlobe 3 times as broad as the side-lobes, broadest a little below the middle, margins of midlobe lacerate, of the side-lobes entire, the whole lower lip outside hairy-except the margin of midlobe, in centre of midlobe inside a large tuft of very long hairs; in the throat and lower lip 2 rows of long hairs, also some minute hairs in the vicinity of the sacks Stamens 4. didynamous; filaments very short, especially of the shorter stamens, somewhat flattened, spotted with brown, glabrous; authers 2-celled; cells about equal, one placed a little above the other, dorsifixed, muticous, opening longitudinally, flaps slightly hairy on margins; pollen oblong, yellow. Style 5 mm. long, filiform, with a row of a few long hairs for about 1 of its length from the base; stigms minute. Capsule broad at base. tapering to a subsolid tip, scarious on back, glabrous, flattened. Seeds 2, thin, obliquely heart-shaped, covered with a dense mass of very long mucilaginous hairs.

Locality.—Madras Fresidency: Bellary (Hallberg and Blatter No. 9886, type).—Flowered and fruited in December 1916.

CABDANTHERA ANOMALA Blatter sp. nov. [Acanthacea tribus Ruelliearum subiribus Polyspermearum Ab omnibus Cardantherce speciebus differt stamine unico fertili et staminodio uno, seminibus 10-12 tantum, instructis retinaculis curvatis.]

A prostrate herb growing on damp ground, branched from the root. Stems eresping, rooting at lower nodes, eubquadrangular, hairy in rows, hairs pointing downwards, swollen at nodes, internodes up to 2 cm. long. Leaves up to 28 by 11 mm. subsessile, obtuse, subentire, insensibly passing into smaller bracts, margins strongly ciliate, upper surface hairy, lower less so, but midrib below with a few long stiff hairs. Bracteoles 2, lanceolate, as long as the calyx, very hairy on both surfaces with strongly ciliate margins. Flowers distant, solitary, axillary, sessile. Calyx 4 mm. in flower, 5 in fruit, 5-lobed, divided nearly to the base, lobes linear-lanceolate, acute, very hairy. Corolla 5 mm. long, pure white, 2-lipped, lobes twisted to the left in bud, lips of equal length, } of the whole, pubescent outside as is also the upper somewhat compressed part of the tube. Upper lip shallowly 2-lobed, lower lip deeply 3-lobed, lobes rounded. Stamens 2, one fertile, one barren, included; anthercells 2 parallel, large, oblong, erect, muticous, separate, vellow ; filament running down the whole length of the tube and adnate to it, at the point of separating a staminode with hooked tip; base of filaments of stamen and staminode joined by a sheath with long hairs. Overy many-ovoled, pubescent. Style reaching above the calvx with upwards directed hairs, stigma shortly unequally bilobed. Capsule linear-oblong, subtetragonal, 2-grooved, 7 mm. long, 1.2 mm diam., minutely pubescent at tip. Seeds about 10-12 in two rows, one row in each cell, on slightly upcurved retinacula, light brown, more or less tetragonal, margins hygroscopically hairy, sometimes also the surfaces partly.

I have put this species under Cardentherz for want of a better place. Prof Hallberg who found this plant was in favour of making a new gonus I do not feel very confident about this proposal, especially as the new species seems to be a very variable one in other parts, though very constant regarding the stamens.

In a specimen growing in water near the Vehat Lake (Salestèe) we noticed the following differences: Stem glavous, stouter, ascending, rooting from the submerged nodes. Internodes much longer, up to 4.5 cm. Leaves up to 3.5 by 1-4 cm, ovate or obovate, margins minutely stiff-hairy, otherwise glabrous. Bracteoles much larger than early, up to 10 by 2.5 mm., unequal-sided. Calyx unequally desply divided, but not near to ite base, less hairy (Nov. 1918).

Another specimen gathered at Khandalla in the W. Ghats showed amongst other differences the following: Bracteoles ovate-elliptic, equal to, or shorter than the calyx Calyx 4.5 mm. long in flower, divided only a little more than half-way down.

The stamons are evidently in a state of transition, in which direction is difficult to say. Light may be thrown on this question as our knowledge of the Indian Acanhacese increases. It is a very rich family, but a great number of species have yet to be described.

The fact that another very anomalous species (Cardanthera Thwaitesi Benth.) has already been put under Cardanthera by

C. B. Clarke, has encouraged me to do the same with the new species. Cardanhera requires revision and its general characters must be more clearly defined

Locality: Bombay Presidency: Vchar Lake in Salsette (Hailberg No. 9766, type), Tardeo, Bombay Island (Hailberg No. 9767, cotype).—Flowered and fruited in November 1916.

# Scrophulariacea

Limsophila 1 polystochyoides Blatter sp. nov. (Scrophuluriacaa. Accelia da Limsophilam polystochyom, sed distinguist folis superioribus servulatis (non crenulatis) bractoris triangulariacutis (non lincari-lancelotts), culques seguentis empularitriangularibus -ubacutis vel obtuvis (non ovato-acuminatis), capsula culque tota neisesa, 4-5 mm. longo ovoidea.

A paludine herb, 90 cm. long, erect or ascending from a floating portion which is densely clothed with capillaceo-multifid leaves. Stem stout, sparingly and finely muriculate, here and there with a straight hair; upper (flowering) part pentagonal in transverse section. Lower leaves all capillaceo-multifid : upper ones opposite or in whorls of 3 (in the same plant), 2 cm. long, 7 mm. broad, entire; lanceolate-acute to linear in the highest region and much shorter, sessile, serrulate (not crenulate), 3-nerved from base running up to the tip, mostly with an additional pair running half-way up. Flowers sessile in terminal spikes about 6 cm. long ; lower part of inflorescence lax. upper very dense with very small floral leaves which are shorter than the flowers Bracteoles triangular-acute, a little more than 1 mm. long. Calvx 3.5 mm. long, divided half-way down. sepals rounded keeled on back, slightly subequal, central part of each sepal green; teeth 5, narrow-triangular, as long as tube subscute or obtuse, finely muriculate on margin and on central line of back with a few hairs at the tips. Corolla at least twice the length of calyx, white, woolly inside. Capsule entirely enclosed by calyx, 4-5 mm. long, ovoid, minutely papillose, glabrous, shining. Seeds brown, elongate, mm. long, broader at apex than at base, 4-5-sided, truncate at both ends, finely tuberculate.

Locality: Bombay Presidency: Salsette, near Marol in pool. (McCann and Blatter No. 12345, type).—Flowered and fruited in December 1916.

<sup>1</sup> I meaned to go heat to the oldess name of the genus, viz.: Ambusia Lam, per Miss H. L. Groun of the Knew Harcharium informs me that although the genus demokration of the genus demokration of the genus demokration of the control to the contro

## Euphorbiacea

Euphorbia panchganiensis Blatter and McCann sp. nov. Pertinet ad sectionem Rhizanthii; refert multis in partibus E. acaulem Roxb. a qua tamen distinguitur cymis multis e collo surgentibus, forma bractearum, seminibus rotundis non subacutis. Similis etiam Euphorbiæ khandallensi Blatt. and Hall, a qua tumen differt cymis numerosis, eisque ter tantum dichotomis, stylis

ad medium connatis.]

Underground rootstock irregularly cylindric, horizontal, up to 20 cm. long and more, about 7 cm. diam., producing stout roots on all sides. Leaves broadly or narrowly lanceolate or oblong, or oblanceclate, often with wavy margin, fleshy, purple or green or red or mottled, radical, appearing after the owers. Peduncles round or compressed, arising in dense bunches from a stout neck about 2 cm. in diameter and as long or longer (the length depending on the depth at which the rootstock lies). Cymes (together with peduncle) on the average 6 cm. long, stout, fleshy, usually reddish, purple or pink or greenish all over except for the lobes of the involuere which are light pink and the bracts which are purple, pink or whitish, branching dichotomously up to 3 times. Bracts very variable, scarious, rigid, usually turning white, at the lower forks triangular-acute or triangular-lanceolate, with wavy margin, 1-nerved, upper bracts semi cylindric, bases semiamplexicaul, apex acute, recurved. Involucre 6 mm. across; lobes spathulate, fimbriate-pectinate, pink; glands transversely and broadly oblong. Anthers purple, opening at the apex; pollen yellow, ellipsoid. Styles connate to the middle. Capsule 4 mm. long, 7 mm. broad, trisulcate; cocci 3 (sometimes 4) compressed or sometimes rounded. Seeds globose, 3 mm. diam., smooth, black when fresh, later on grey.

Locality: Bombay Presidency: Panchgani, Tableland, 4400 ft. (Blatter and McCann No. 102 type, 103, 104 cotypes).-Flowered: April 1926.

Notes: -This plant is very common on all the tablelands in the neighbourhood of Panchgani. It flowers from November to May, but especially during the hot season, when the laterite ground is absolutely parched and only covered with dry low grass. The flowers come up in great masses and whole purple patches of them may be seen. They have apparently no encmies, as goats, sheep, and cows do not touch them. They are mostly purple or red, evidently endowed with that colour as a protection against the sun in localities where there are no trees or shrubs or even herbs to protect them.

The leaves begin to come up with the monsoon. Green in the beginning they turn purple or red towards the end of the rainy season and by October large areas of the tablelands are coloured a deep purple or a bright red. By November the leaves begin to disappear, but flowers and leaves are never seen on the same plant at the same time.

There are, as pointed out above, two other species which resemble the new one very closely: E. acaulis Roxb. and E. thandallensis Blatter and Hallberg. Somebody might point out that these 3 species deserve a similar fate as E. acaulis Roxb. and E. nana Royle which were united by J. D. Hooker under E. furiformis Ham. (Fl Brit. Ind , V. 258). All had been considered as distinct species by Boissier (DC. Prodr XV, II. 93, 94) Hooker gave this reason for combining them: "Unlike as Royle's nana is to Roxburgh's figure of acaulis. I am convinced that these are merely forms of one, the length of the cyme probably depending on the moisture of the soil, and whether produced in open ground or amongst herbage. The Concan specimens are intermediate"

If Hooker in his specimens saw only differences in the size of the cymes, we would, in a general way, agree with him that edaphic conditions can produce a distinct growth. But even here we could mention that we have grown plants of the new species under varied conditions. i.e., without water and in water, and the cymes, morphologically considered, were always more or less the same, except that they were green when out of the

direct sun-høht

It must also be admitted that Boissier's descriptions of E. Justmormis and E. nana did not mention any good distinctive characters, but then we must remember what he says of the first: "Planta ex icone et descript cit, mihi tantum nota", and of the second: " Ex descriptione et icone valde rudi tantum nota".

So much about Hooker's combination who was able to

examine Hamilton's and Royle's specimens

As regards the new species and those closely allied to it, it can be seen from the descriptions of E. khandallensis and panchganiensis that not only the size of the cymes has been considered but also their number, the bracts, the styles and the seeds. The co-operation of botanists in other parts of India is kindly invited.

## Hydrocharitacene

BLYXA ECHINOSPERMOIDES Blatter sp. nov. [Hydrocharitacea similis Blyzae echinospermae Hook. f. sed differt foliis basi angustroribus quam in medio, polline subgloboso spinoso et

seminibus papillosis, non spinosis 1

Stemless, densely tufted, submerged. Leaves linear, acute, narrowed from below the middle to the base, glabrous. serrulate, up to 30 cm. long, 1 mm. broad; midrib strongly prominent beneath, very swollen and spongy towards the base; upper surface flat; the leaves have a purplish hue and show irregular transverse darker lines when held against the light. Scape growing up to 17 cm. in fruit, much compressed, spongy, Spathe ca. 65 mm. long, 4 mm. broad, 2-toothed, much flattened, each side with obscure nerves, 2 of which are slightly more prominent. Before the flower is developed there is a deep groove between these nerves along the empty part of the spathe; the spathe attains its full length already in bud Flowers hermaphrodite, solitary, sessile in the spathe, up to 11.5 cm. long; bud trigonous Sepals 3, 10 mm. long, 1 mm. broad, green, streaked with purple, linear, obtuse. Petals 3 10 cm. long, 1 mm. broad at base, filiform, vellowish, tip twisted, white. Stamens 3, about half as long as the sepals; anthers 1 mm. long, narrow, erect, shortly beaked, vellow; pollen subglobose, covered with numerous short spines. Styles 3, up to 18 mm long, linear, terete, at first white, later greenish; stigma obtuse, papillose Capsule terete, long-beaked, seed-bearing for about # of the part covered by the spathe. Seeds white, ellipsoidal, about 11 mm. long not counting the tails, strongly papillose, with a curved tail at each end slightly longer and shorter than the seed respectively. (Some plants have seeds with both tails longer than the seed itself and in this case the papillae are longer.)

Locality: Bombay Presidency: Vehar Lake, Salsette (Hallberg No 1555, type)—Flowered and fruited in Novemher 1916.

Note: The genus Riyan, Noronha is in a bad state. J. D. Hooker (Fl. Brit Ind., V. 680) makes the following remark: "Under this genus the following Indian forms occur. These present such diverse characters that it is difficult to suppose they do not represent species; on the other hand, water plants are so variable, and herbarium specimens of them are so unsatisfactory, that I must leave it to Indian botanists to work up the genus".

J. D. Hooker mentions 7 species of which 6 were described by him. The great difficulty is to fix on constant characters.

The leaves cannot be considered as constant, neither their size nor their elape. Blyac chisaoperma Hook I has leaves measuring from 15 cm to 1.2 m, B. octandra Planch. from 20-00 cm., B. ceptanica Hook. I from 15 c0 cm., If the limits of length in other species are not so far apart, it must in all probability be sacribed to the fact that only one or a few specimens were examined

The shape of the leaves is just as little reliable. Hooker has grouped his forms under 2 headings: (1) "Leaves broad at the base, narrowed upwards to the acuminate tip" and (2) "Leaves narrowed from below the middle to the base".

The new species comes very near B. echinosperma, and may prove some day to be identical with it, and still its leaves are narrowed from below the middle to the base, whilst the leaves of B. echinosperma are broader below. The scapes and spathes are equally variable, except that the male flowers are enclosed in a 3-toothed spathe, while the hermaphrodite and male flowers are surrounded by a 2-toothed spathe (Hooker seems to be mistaken when he says that the spath of the female flowers is that of the male).

"Diocolous" and "hermaphrodite" flowers seem to form a good character. The sepals and petals seem to be fairly uniform, but differ in size and colour, characters which do not count

much in water-plants.

The number of stamens may be utilized in classification as soon as they are better known.

Pollen, fruit and seed seem to vary a good deal in the same species.

Before me are 2 specimens gathered in the same locality and on the same day. I have every reason to assume that they are identical with the new species. They were described from fresh specimens and they were found to agree with the new species though disagreeing unite anumber of characters which in the meantime I consider as veriable. If they should, in course of time, prove to be constant, the two spechmens must be

treated as new species.

Ist speciment: Flowers up to 16 cm. long. Spathe 6.5 cm. long, 4 mm. broad. Pollen ovate-oblong, slightly oblique, less sping thain in the new species. Seeds narrowly ellipsoidal, with a stout tail nearly as long as the seed, broad at its base where there is also a small process; length of seed and tail I.5 mm.; surface minutely, irregularly winkled, not papillose or striate. The younger seeds are exactly like the younger seeds of speci-

2nd specimen: Scape up to 27 cm. long in fruit. Spatile 3.5 mm. broad. Pollen more or less angular (somewhat obpyramidal with numerous short spines. Seeds not half the length of new species, with a tail shorter than the seed at one end and a minute process at the other, not papilices, surface minutely interruptedly striate. Younger seeds broadly oblong, umbonate.

I am afraid it will take a long time before we are able to give a somewhat satisfactory account of this widely spread genus in India. Also here I invite my colleagues' co-operation. But the only way of obtaining reliable information is to write a detailed description from fresh specimens or to keep the specimens in formalin. Herbarium specimens, even well prepared, are not of much use.

HYDMILLA FOLYSPERMA Blatter ep. nov [Hydrocharisacea. Similis Hydrilm verticillata Presl, sed differt epatha feminea a pice acuta non bidentata, stigmatibu non fimbriatis sed coopertic pilis stigmaticis. seminibus numerosis ovatis basi truncatis, testa non producta.

A submerged, green, delicate, leafy fresh-water plant, form-

ing large masses. Stem much branched. Branches filamentous, from { mm. diam. to almost capillary. Leaves opposite or more usually in whorls of 3 or 4, seldom 5, 11-12 mm. long, 2 mm. broad, linear-lanceolate, finely spinulose serrulate, tip spinous, mid-rib slightly paler than the rest. Flowers dicecious. Male flowers solitary in a bell-shaped spathe, female flowers usually solitary in a tubular spathe. Male flowers: Spathes usually 2 or 3 in a whorl, bell-shaped, membranous, 3 mm, long, slightly 2-lobed, with about 10 long fleshy conical teeth projecting outwards from a little below the margin of the mouth forming a subregular ring. Flowers minute, short-stalked, solitary. Sepals 3, broadly ovate, deeply concave, obtuse, about 2 mm. long. Petals 3, strap-shaped, slightly widening towards apex, tip triangular, slightly longer than sepals, bent inwards, included. Stamens 3, about as long as sepals; filaments twice the length of the anthers, stout; anthers large, bilocular, opening longitudinally; pollen globose Female flowers; Spathe 8 mm. long, narrow-tubular, apex acute. Perianth 5 mm. long. Sepals 3, oblong-lanceolate, flat, slightly incurved at tip and mucronate about 1 mm. broad in the upper third, greenish white. Petals 3, slightly incurved at tip, almost identical in shape with the sepals, but smaller, white Ovary cylindrical, produced into a very slender beak, full of mucilage; ovules many, anatropous. Styles 3, fleshy, slightly tapering, about half the length of the petals, covered with long stigmatic hairs, (not fimbriate) Seeds many, small, ovate, truncate at base with a strong ridge running down on one side from the apex, getting broader towards the base (testa not produced at either end).

Locality — Rajputana: Mount Abu, Naki Talao, about 4,000 ft. (Hallberg and Blotter No. 11189, type).—Flowered and fruited in October 1916.

# Zingiberacea

CURCUM I INCODAR Blattor ep. nov. [2 Ingiberacea subgeneris Escurcums K. Schum. aections Examina. Rhizoma radiobus copiosis filipendulis tuberiferis instructum; Juhera intus alba, incodora. Folia cum floribus oriunda, immalura 34 cm. longa, 10 cm. lata. apice acuminatr. piécala; petiolus 10 cm. longus, produse concevus, alatus. Inforeacentia vernalis. lateralis; petunculus 10 cm. altus. Bracica inferiores breviores et latiores superiorius, pallidis virides rubor-cintos, esperiores rooca apice prepurera, omnes apice truncata, rotundata cel emarginata. Calya 1 cm. longus, tubulos-trigonus, apice breviter et irregularire 3 lobus; tubus minutiesime pubescens. Corolla 3.5 cm longa; tubus 2 cm., lobi 1.5 cm. longi; bobus doracis apiculatus. lateralibus dimidio latior, lobi laterales retus; omnes ovati eel ovato-lanecolati, dimidio latior, lobi laterales retus; omnes ovati eel ovato-lanecolati, concari, purpurascentes, ad opicem subseccoti. Steminodia et lobellum subaggulonga, aliquantulum eccedentia petalo. Steminodia obtionga, 5-7 mm. lata, truncata, purpuro-rubra. Labellum

obossium obseure 3. doduum vi subintegrum, 1.5 mm. lotum, marginabus eriegum, purpurer-vulrum, ad medicarum inmensiasum flavum per totam longitudisum. Filomentum i mm. latum, parpurer-vulrum connatum cum staminoditis; anthera alba, basi et calcaribus roseis. Ovarium demo birautum. Stylus roseus; stigma album, obliquum, bilotum;

Base of plant a rhizome; root-fibres numerous, bearing ovoid tubers 4 cm. from their base; tubers 2-2.5 cm. by 1.5-2 cm., white inside, divided into an outer and inner part by means of a membrane visible in a section as a distinct line following the outlines of the tuber, no smell, taste rather pleasant. Leaves appearing together with flowers, all enclosed in 2 olive or purplish green sheaths, which are many-nerved, rounded at tip, sometimes apiculate, 8 and 15 cm long respectively. Young leaf: Blade 24 by 10 cm. with the apex acuminate, plaited with about 20 pairs of ridges following the main nerves: potiole 16 cm., deeply concave, winged. Inflorescence vernal, lateral; peduncle 10 cm. long, narrow below, stout above, with many sheaths at base. Lower bracts much shorter and broader than upper, pale green tinged with pink, margins waved, tips of all the bracts truncate, rounded or emarginate: upper bracts forming a coma, rose-coloured, tips purple Calvx 1 cm. long, tubular, trigonous, widening upwards, shortly and irregularly 3-lobed at apex; tube sparsely minutely pubescent. Corolla 3.5 cm., tube 2, lobes 1.5 cm., tube sharply bent in a little (3mm.) below the sinuses at which point it widens out, Up to this point tube below with 2 anterior fleshy whitish ridges with a furrow between, together 3 mm broad Dorsal lobe 11 times as broad as side lobes,, apiculate, side-lobes retuse, all ovate to ovate-lanceolate, concave, purplish, obscurely nerved, subsaccate near tip. Staminodes and lip subequal in length, surpassing tip of petals by 2 or 3 mm. Staminodes oblong, 5 mm. broad near tip, 7 mm. lower down, truncate, purplish red. Lip obovate, obscurely 3-lobed or subentire, 15 mm. across, margins crisped, apex bifid, with a faint longitudinal furrow on both sides; colour purplish red, a bright yellow band running longitudinally, broadest anteriorly, fainter below and on the outside, in its broadest part about 5 mm. Filament 3 mm. broad, connate with staminodes below, purplish red, free portion bent in; anther white with pink base and spurs which are bent inwards. Ovary 3 by 2 mm., densely harry, hairs directed upwards. Style pink; stigma oblique, white, bilohed, anterior margin straight, posterior with two diverging processes.

Locality.-Bombay Presidency: Moolgaum, Salsette (Hall-

berg No. 12724, type).—Flowered in June 1917.

CURCUMA PURFUREA Blatter sp nov. Zingiberacea subgeneris Eucurcume K. Schum sectionis Mesanthæ Horan. Accedit ad Curcuman decipientem Dalz. sed differt und tubere sessiti intus paltide flavo folis multo latioribus, bracleis floriferaapies una saccatis, corolla multo longiore, tabollo obseuve 3 rislentav vel integro, corolle tubo calgoe triplo longiore, corolle segmentis apice subcaccatis. Similia quoque multa in partibus Ourcuma inodore Blatter, sed distingui potest inforescentia autumnali, centrali et absentia tuberum sessitium, corolles lobo dorrali longe murronato, lateralibus autem rotundatis, stylo alibo.

Root-fibres thick; one sessile, transverse tuber, 4 cm. long, 1 cm. diam., pale yellow inside, faintly aromatic. Leaves and flowers contemporary. Leaves about 20 cm long and 8 cm. broad, acuminate, plaited, petiole about 15 cm. long, deeply furrowed, winged. Lower bracts shorter and broader than the upper, pale green, tinged with pink, margins wavy, upper bracts forming a coma, rose-coloured, tips purple, all the bracts truncate, rounded or emarginate, (not saccate). Calvx 10 mm. long, tubular, trigonous, shortly and irregularly 3-lobed at apex, widening upwards. Corolla 4.3 cm., tube 3 cm., beginning to widen about 1.7 cm. from the base, but not sharply bent-in, white (without fleshy ridges); dorsal lobe 11 times as broad as side-lobes, long-mucronate, side-lobes rounded at apex, all ovate to ovate-lanceolate, concave, purplish, subsaccate at tip. Staminodes and lip almost of equal length, surpassing tip of petals by a few mm Staminodes oblong, 8 mm broad, truncate, purplish red. Lip obovate, obscurely lobed or subentire, 15 mm. across, margins acrisped, apex bifid, colour purplish red, a bright yellow band running longitudinally, about 8 mm., broad, in front occupying almost the whole midlobe. Filaments 2 by 3 mm, connate with staminodes below, purplish red; anther white, base with spurs pink. Ovary densely soft-bristly upwards. Style white: stigma oblique, bilobed.

Locality.—Western Ghats: Khandalia (Hallberg No. 14566,

type).-Flowered during the early monsoon 1917.

KARMETBA EVANU Blother sp. nov. [Zingiberaca tribus Hedgylaterum pertinst at genue Kampfrom sections Mondish. Herba perennis. Caulis crassus, foliones ad 63 cm. altus. Folia lancoalata val ellipsica, acuminatissima, infra pubevacini, neptichum brenem decurrentia, usque ad 27-36 cm. longa, 6 cm. iata, platoses, flores lazes speciali, terminales. Bractea uniforae, spahatoaes, glabrus, 2-3 cm. longae. Calyx tubuloso-spahacess. 4-5. cm. longus, membranacess, apies fessus per 1 cm. Corolla glabra, tubus 7 cm. longus, pallide aurantiacus, lobi 4 cm. longi, nequest lineares marginibus involutis, pallide faji. Staminodia 2, anguste linearia, 5 cm. longa, 3 mm lata, alba. Labellum 4-56 longum, 2-6 cm. latum, cusectum, bifdum per 1-5 cm. album unguicula aurantiaco. Stamina 4 cm. longa, rubra. Antherus 2-5 mm. lata, lebi in-aequalest, 7 et 6 cm. longi, paralleli, basi liberi. Connectivi appendicula subulata, subfuva, 1 cm. attim-pentia. Durarim subirjounn, ca. 1 cm. longum, p3-6 cm. longum, 2-6 cm. lon

8-loculare ovulis multis. Stylus flavus, generatim antherarum lobis quidem sed non appendiculis longior. Stigma capitellatum penicillatum.

A perennial herb. Stem about 60 cm high, stout, green, clothed with the sheaths of the distichous leaves. Leaves 36 by 7 to 27 by 8 cm., lanceolate or elliptic, very acuminate, finely pubescent beneath, running down into a very short petiole. Flowers laxly spicate, terminal, the lowest 3 cm apart, faintly fragrant; axis of inflorescence angular, grooved, glabrous. Bracts 2 5 cm long, 1 to each flower, spathaceous, enclosing the calyx, nerved, glabrous. Calyx 4.5 cm long, tubular, narrow, spathaccous, membranous, split for about 1 cm., limb obtuse, nerved. Corolla glabrous, tube 7 cm. long, narrow, cylindrical, pale orange; lobes 4 cm. long, narrowly linnar, broadest (4 mm.) a little below the acute contracted tip, 3-nerved, with the margins rolled in, pale yellow. Staminodes 2, narrowly linear, 5 cm by 3 mm.. broadest near the obtuse tip, 3-nerved, white. Lip 4.5 by 2.5 cm., broadest outwards, cuneate, bifid for 1 5 cm. white, fading yellow, with a distinct orange claw. Stamen 4 cm. lorg, red; filaments very narrow; anther 25 mm. broad, anther-cells unequal, parallel, 7 and 6 mm long respectively. with a vollow line, free at the base; connective crested, produced into 2 subulate unequal yellowish tails, reaching 1 cm. in length. Ovary slightly trigonous not 1 cm. in length, glabrous, 3-celled; placentas axile; ovules numerous; 2 thick, conical, obtuse, bright yellew excrescences, 3 mm. long, on ovary at base of corolla-tube (rudimentary styles). Style yellow, very slender, glabrous, generally overtopping the anther-cells, but not the tails. Stigma small, yellow, capitellate, transversely compressed penicillate, with a depression on top.

Locality · Madura District : Gathered on the High Wavy Mountain, 5,500 ft., in May 1917, flowered in Bombay in September 1917 (Hallberg and Blatter No. 7744, type).

#### Amaryllidacen.

PARCHATIUM DONALDI Blatter sp. nov [Amerylideosa, accedens ad Pancratium parvum Dalz. necnon P. St. Mariae Blatter and Hallberg. Differt a primo corona lata conica et coapo fortissimo, ab altero stylo non incluso er perigonii tubo mullo longiore necnon distincte trigono.

A perennial glabrous herb. Bulb globose, ca. 4 cm. diam, unicate, brown; neck cylindric, up to 3 cm. long. Leaves at time of flowering 2, leathery, lanceolate, acute or obtuse, reaching about ½ up the scape. Scape very stout, compressed, almost semooth, or striate or ribbed, up to 10 cm. pressed, almost semooth, or striate or ribbed, up to 10 cm. pressed, almost semooth, or striate or ribbed, up to 10 cm.

very broadly ovate, bifld at apex, membranous, whitshe transparent. Pediciole up to 1 cm. long, Perianth-tube up to 9 cm. long, greenish below, white above, distinctly trigonous, alightly dilated above; lobes white, reaching 3 cm. by 1 cm., broadly lanceolate, suddenly contrasted into an awl-shaped spiculus 3-4 mm. long, at the base of the apiculus above a small horn pointing inwards. Staminal cup 1 cm. long, broad-y confloct-trigonous, with 0 longitudinal folds truncate at apox with bifut tech between the filaments. Filaments longer or yellow. Style fillform, about 11 cm. portrading for about 1 cm. beyond the anthers. Stigma subtrilobed. Ovary cvilladrical-tignouss, 3-celled, many-ovuled.

Locality: Bombay Presidency: Panchgani, Second Tableland in grass on laterite soil exposed situation, only found in an area of about 50 sq. yards (Donald Elkins No. 758, type, 759, 760, 761 cotypes).—Found flowering 10th June, 1928.

#### Liliacea

CHLOROPHYTOM GLAUCALDS: Blatter. sp. nov. [Lilicosa. accedit ad C. plaucum Dalz, sed differt forma foliorum, petiol longo, scapi vuguna paucis, perianthii segmentis longioribus el latioribus anguste oblongis, capsulis triquetris, loculis 6-7-onulatis, semmibus basi cordatis.]

Root-fibres very numerous, cylindric, white, up to 30 cm. long. Leaves 6-14, radical, membranous-leathery, lanceolate. long-acuminate, grass-green above, glaucous beneath, glabrous, attenuated into a long winged petiole. Scape strict, simple, up to 65 cm long, smooth, dark green, provided with 1 or 2 long, lanceolate-acuminate chartaceous sheaths 8 cm. long and 15 mm, broad at the base. Higher up the sheaths become smaller till they pass into broadly ovate or ovate-lanceolate, acuminate, almost amplexicaul, scarious bracts which are persistent (not forming a coma before flowering), brown in the upper part when young, later on turning busses all over, the lower part being almost brown-black, with many black nerves in the central part, 1.5-3 cm. long, smaller upwards; higher up the bracts form a tube surrounding the flowers with their bractcoles, greenish-white, about 8 mm. long, 4 mm. broad, slightly compressed, truncate at apex and brown, with 2 teeth on opposite sides, one tooth acuminate and longer, the other acute. Flowers white, in simple, dense racemes, 15-30 cm. long. 1.5-2 cm. wide. Pedicels of bud ascending, when the flower opens at right angles to the axis and again ascending in fruit, 5-15 mm. long, stiff, comparatively stout, white, articulated about the middle or higher up, 2-3-nate, clongated in fruit up to 22 mm., but only the part below the articulation. Bracteoles 1 for each flower; bracteole of the flower which opens first very small, oblanceolate, white, soarious, about 3 mm. long, of the second flower broadly overs, sub-accuminate with 3 mm. long, of the second flower broadly overs, sub-accuminate with the second flower broadly observed and second the second second the second sec

Locality: Bombay Presidency: Panchgani, beyond the Mahomedan High School (Blatter P73) Flowered middle of August 1925.

Usually only 2 or 3 flowers are open at the same time.

The fact that the pedicel of the bud and the fruit is ascending whilst it is at a right angle to the axis when the flower
opens can be explained as a mechanical reaction. As the
pedicel is very short there is no room for the spreading flower
to expand freely as long as the pedicel forms an acute angle
with the axis of the racema.

In the above diagnosis I have described bracteoles in no description of Indian Chicrophysiums, have bracteoles been mentioned. There is scarcely a cloubt habout the morphological character of the structures which I called bracteoles, and the control of the structures which I called bracteoles, and the control of the structures which I called bracteoles, and the control of the structures which I called bracteoles, and the control of the structures which I called bracteoles, and the control of the structure and the structure of the structure of the structure of the structure and the structure of the structure of

In the key to the Liliaceae, J. D. Hooker (Fl. Brit. Ind., VI, 301) characterizes the overy as 4-6-ovuled. In our species each cell contains 6-7-ovules.

#### Araceæ

ARISAEMA LONGECAUDATA Blatter sp. nov. [Aracea sectionis Clavatorum. Similis Arisamati Leschenaultii Bl. sed

differt spatha viridi longitudinaliter albo-vittata, spatharuma acuminibus longiasmia, spadice [ser duplo maiore, spadice] ser duplo maiore, spadice isa duplo maiore, spadice isa duplo maiore, spadice isa duplo maiore, spadice isa duplo maiore, multo longiore, stigmatibus non sessibius, floribus mascultis omnibus stigutatis.]

Whole valuat reaching 1 m and more, as a rule disocious.

Tuber depressed globose; root-fibres numerous, from the upper side of the tuber, less tough than in A Murrayi. Leaf solitary, peltate; petiole stout, straight, up to 60 cm. long, cylindric, smooth, shining, green and purple-marbled; leaflets generally 6, whorled, petiolulate with petiolules 5 mm, long, very variable even in the same leaf, obovate cuneate or broadly lanceolate or oblong-lanceolate, all caudate-acuminate with acumination up to 4 cm. and capillary towards end, dark green above, paler beneath, shining, up to 22 cm. by 9 cm . intramarginal veins 2, nerves depressed above, promment beneath. Peduncle up to 40 cm., cylindric thinner than petiole, of the same colour, but green near top Male spathe up to 30 cm. long, grass-green throughout, striped externally with white; tube elongatecylindric, up to 8 cm. long, 2 cm. diam., widening into an ovate-lanceolate, long caudate-acuminate limb, 7 cm. long (without acumen) and 4 cm. broad, slightly reflexed near the tube, acumen 13 cm. long; limb deflexed, pendulous Male spadix up to 9 cm. long, exserted from the tube for 1 cm., conical in the flower-bearing part which is about 5 cm. long, appendix about 4 cm. long, straight, slightly thickened at the base, then more or less uniformly cylindric, blunt at tip. Stamens white, filaments stout, about 2 mm. long, usually 3 united carrying 6, sometimes 7-8 anther-lobes which are shortly ovoid or globular. Female spathe up to 45 cm., tube 10 by 2.5 cm; limb (without acumen) 13 by 6 cm., acumen 22 cm. Female spadix : Flower-hearing part about 5.5 cm. long, above female flower some neuters for 5 mm., appendix 4 cm long, like male. Female flowers arranged in many parallel dense spirals. Ovaries spherical or shortly oblong, green, unilocular, 1-3-ovuled; style very short, stout, green, stigms disk-like, white, covered with crystalline protuberances. Neuters above the female flowers up to about 17, subulate

Abnormalities: In a female spadir (call it incipient or taxistic androgynous spadir) were noticed above the female flowers 2 male flowers, each consisting of 2 filaments united below and free above, each filament with two distinct white anther-lobes separated from each other by a broad green connective.

Mixed with the neuters of a female spadix the following were observed:

(a) One bisexual flower on 2 pedicels united at the base:
one pedicel bearing an undeveloped ovary and

well-developed style, the other pedicel one complete anther.

(b) Some male flowers: 1 filament with an anther-lobe.

(c) Some male flowers: 1 filament with a complete anther and connective.

Flowers and leaves seen at the same time. Spathe usually reaching to up below the leaf, the leaf thus protecting the flower; the spathe is never higher than the leaf. The spathes turn pale and then yellow.

Locality. Bombay Presidency: Mahableshwar, very common, covering large areas in the woods, also found on trees (Blatter No. P 10, type) —Flowered by the end of June 1925.

Note: This is one of the commonest plants in the woods of Mahableshwar during June and July. The straight study pedunde and petiole surmounted by the large peltate leaf made up of 8 long-caudate leaflest and the long pendulous acumon of the spatile at once catch the eye. It is strange that this plant lias not been observed by H. M. Birdwood or T. Cooke or any other botanuist. Is it because it is a monoson-plant when vastors do not stay at Mahableshwar? Or has it been mistaken for A. Lezekensulii, the only other Arizema which the new species resembles? Cooke mentions two specimens of that species, but he has not seen them (vol. II, \$211).

Hocker f. (Fl. Brit. Ind., VI. 504) gives. "Western Ghaste, from the Conean southwards" as locality for A. Leschendriil I do not know on what specimens he founded that locality or whether he simply accepted Dalzell and Gibson's word, their specimen from "between Ramghat and Belgaum" not being at Kew. There are authentic specimens to show that the plant occurs in the Nilgiris and Ceylon. but nobody seems to have seen the true Arissean Leschenduith in the Bombay Presidency.

Requires further investigation

The new species also resembles in some respects Arisamus couldains Ragher. This is a species only partly known. Hooker f. (Fl. Brit Ind., VI, 508) had seen no specimen and described it from a drawing by Stocks who had seen the plant in the Konkan. Engler described the species, as he says himself, from a badly dried specimen. We reproduce Engler's occupient than either Hooker's or Cooke's. It may help future botanists to identify the plant in the field.

Arisoma caudatum Engl in DC. Mon. Phan., II (1879) 550, in Engler's Pflancenrich IV, 23F (1920) 183, fig. 39; Hook f. Fl. Brit. Ind., VI (1893) 508; Cooke Fl. Bomb., II, 822.

Leaf solitary. Dioecious (Hooker and Cooke speak of the spadix as androgynous), Petiole stout, narrowly sheathed; blada radiatisect; segments 7, oblong-elliptic, long and very narrowly asuminate, ending in an aristiform 1-1.5 on. long

tip, abortly cuneate at the base, 15-17 cm. long, the middle segment  $\delta$  cm. broad, the lateral ones narrower, lateral nerves archingly ascending at an acute angle, 7-9 mm. distant from each other, united into an intransarginal nerve 2-3 mm. inside the margin. Pedurole much shorter than the petiole. Tube of spathe long-infundibuliform, 6-7 cm. long, above 2 cm. diam., margin of the throat slightly recurved, blade erect, oblong-lanecolate, about 8 cm. long, 3 cm. broad below, contracted into a narrow linear tail 8 cm. long. Infereseence of spadix about 5 cm. long; appendix stipitate, thickened at the base, only 1.5 cm. long:

This plant has not been observed since Stock's time.

As I am just dealing with the genna Arizema I wish to complete Hocker's and Cooke's descriptions of Arizema Murrayi Hook, which are not always correct in every detail and sometimes ambiguous and misleading. This plant is one of the commonest at Panehgani, but it took me a long time before I was able to identify it with A. Murray is imply on account of some general unqualified statements made by Cooke and Engler Arizema Murrayi. Hook, in Bot. Mao., 11848); 1.4388.

Tubers hemispheric, up to 5 cm. diam , root-fibres crowded arising from the upper side of the tuber, fleshy, white, rather tough. Sheaths broadly linear-oblong, or oblong-lanceolate, mucronate, lowest white, tipped purple, the others pale or dark purplish, the appermost up to 30 cm. long, the lower much Leaf one, coming up shortly after the peduncle, but coexistent with the flower and finally reaching higher than the flower, peltate, glossy dark green on the upper surface, paler and shining beneath, divided to the base into 5-11 segments. Segments sessile, ovate-lanceolate-acuminate or oblong-lanceolate-acuminate or obovate-lanceolate, cuneate at base, with 2 intramarginal nerves, the outer faint, the inner distinct and about 1 cm. from the outer, otherwise penninerved, the nerves from the midrib meeting the inner intramarginal nerve. all the nerves depressed on the upper surface and very prominent on the lower, the central one very pale green, margin either entire or dentate-sinuate and wavy, length from 6-15.45 cm., breadth 4-6.15 cm., scumen 1.5 cm. Petiole 30-40 cm. long. 2 cm. diam. below, 1 cm. near lamins (in a specimen 60 cm. high), cylindrical, striate, stout, green or purplish-red or greenish purple or green streaked with purple, sheathed for one half or less. Pedunole 30-90 cm., green or purple, cylindrical, thinner than the petiole, and slightly thinner towards the apex, shorter or longer than the peduncle. Spathe striate, up to 14 cm. long, tube cylindrical, 2.5-6 cm. long, 1-3 cm. wide, grass-green inside and outside with white strise, especially upwards, slightly constricted at top and there broadening into a broadly ovate-acute or ovate-acuminate, somewhat ouculate limb, limb up to 11 cm., incurved, sometimes at a right angle, at other times at 45° to the axis, pure white or sometimes with a green band or blotches along the centre. purple inside and outside where it meets the tube, the purple sometimes very faint or absent, especially outside, veins many, parallel, very distinct outside, faint inside, acumen mostly tinged with a bright green. Spadix narrowed from the base upwards, conical; appendage very variable, 3-7 cm. long, greenish at base, becoming deep purple above and lighter in colour at the tip, exserted (I have not seen it included in the tube), following more or less the bend of the limb, tapering to a fine point. Spadix androgynous or unisexual Androgynous spadix : Female flowers below, crowded, covering about 2-3 cm of the conical axis; ovaries arranged in many parallel spirals, sessile. style very short, stout, stigma diskshaped, white; then follows an empty space of 3-4 mm, or the male flowers follow immediately, covering 1 2.5 cm. of the spadix, consisting of groups of 3-8, mostly 6 anther-lobes on a common very short stalk, sometimes a few subulate neuters above the anthers. Male spadix. Anther-bearing part up to 3 cm. long, 2-7, mostly 4 anther- lobes on a common stalk about 2 mm long, globose or shortly ovoid, opening by a slit on top. Female spadix never seen. Ovaries when ripe, bright red, variously compressed.

The anthers are faintly scented.—The plants with male spadices are generally only half the size of those with androgynous spadices

This is a most variable species as can be seen from the measurements given of the different parts and organs. When fresh the identity of the plant cannot be mistaken though at first sight some specimens are most puzzling; but if one has to deal with dried specimens only, one can easily feel inclined to make new species where there are only extremes of size or variation of shape of which in nature one finds an endless series of translaton-forms generally not represented in herbars.

The description prepared from one specimen in such a case must necessarily be wrong, unless it be supplemented by number of notes referring to almost and correcting every detail mentioned in the description in order to give a complete and reliable picture of the species and not only of one specimen. But this kind of work can only be carried out with fresh material and with plenty of it. There is a vest field for the Indian botanist and we can help materially our collesques in Europe who, in spite of their painstaking labour, have to contess in the end: "Yeld sickure,"

## On a new Theropod Dinosaur (Orthogoniosaurus Matleyi, n. gen. et n. sp.) from the Lameta beds of Jubbulpore

By H. C. DAS-GUPTA

## INTRODUCTION

The tooth that is described here was obtained from the green marly clay of the Lameta beds developed in the Jubbulpore Cantonment. These beds have been elaborately described by Dr. Matley 1 who has also given us a short account of the history of the feasil bones found at this locality from 1828 to 1917, when an interest in the study of the Lameta feasil reptiles was revived by Dr. Matley himself. I had an opportunity of visiting this locality in charge of a party of students from the Presidency College, Calcutta, in 1924, and succeeded in making a small collection including the tooth that is described below.



Orthogoniosaurus Matleyi n. gen. et n. sp. z 2.

## DESCRIPTION.

The tooth on which the genus Orthoponicesurus is established is rather small in size, the preserved part measuring about 27 mm., compressed and with a posterior edge which is denticulated and straight. The serrations are rather blunt, set at right angles to the edge and possibly run along the entire length, though, on account of the incomplete nature of the lower part of this edge, nothing definite can be said regarding this point. The anterior edge is convex and not denticulate. The exposed face appears to be slightly convex.

## SYSTEMATIC POSITION.

Prior to 1917 only remains of Sauropod dinosaurs had been known from the Lameta beds, but it was the investigation of Dr. Matley which, for the first time, brought to light the remains of carnivorous and

<sup>1</sup> Rec. Geol. Surv. Ind., Vol. 58, pp. 142-184, 1921.

armoured dinosaurs from this region. The carnivorous dinosaurian remains, according to Dr. Matley 1, include teeth of a megalosaurian type; while the armoured dinosaurian remains have been described as a new genus (Lametasaurus) by Dr. Matley<sup>2</sup>. Besides the megalosaurian teeth mentioned above, Megalosaurus ap. has also been recorded from the Cretaceous beds of Southern India by Lydekkers, but the tooth that is described in this note is quite distinct from megalosaurian teeth which have got both their edges serrated. As remarked by Gilmoret, 'the serrate edges on the anterior and posterior borders are characteristic of nearly all Theropoda and I think that the absence of any denticulation on the anterior border is a sufficiently important character on which a new genus may be established. Among the Cretaceous Theropods Orthogoniosaurus Matleyi may be compared with one of the three teeth described as Coelurus gracilis by Lull<sup>5</sup>, but the chief distinction between the tooth of Coelurus gracilis and that of Orthogoniosaurus Matlevi lies in the fact that the posterior edge of the former is concave, while that of the latter is straight.

In this connection attention may be drawn to a Theropod dinosaurian tooth originally described by Huxley as Ankistrodon indicus and subsequently changed into Epicampodon indicus by Lydekker7. Recently von Huene 8 has expressed an opinion that Epicampodon is possibly the same as Thecodontosaurus and the Indian Epicampodon indicus is related to Thecodontosaurus cylindrodon. The Indian Triassic Epicampodon (= ? Thecodontosaurus) indicus may be regarded as a very close ally of Orthogoniosaurus Matleyi, the relationship resting chiefly on the occurrence of the dental serrations which are found only on the posterior border which is also straight in both cases. The serrations of Orthogoniosaurus Matleyi are rather blunt and at right angles to the axis of the tooth and, in these respects, there is a great similarity between my species and Thecodontosaurus cylindrodon described as Palaeosaurus cylindricum by Riley and Stutchbury10, as Palaeosaurus cylindrodon by Huxley11

T. G., etc. P. 184.
 Rev Ged. Stare Ind., Vol. 55, pp. 108-109, 1824.
 Rev. Ged. Stare, Ind., Sci. 10, pp. 41, 1977, and Yel. Ind. Ser., TV. 6. Bot. 198.
 Star. 198.
 P. 198.

Geol. u. Pal. Abhandl., Bd. XII, p. 5, 1906.
 Geol. u. Pal. Abhandl. Suppl. Bd. 1, Lief. 5, p. 303, 1908.
 Proc. Geol. Soc. Lond., Vol. II, pp. 397-398, 1836. 11 Q.J.G.S., Vol. XXVI, pp. 43-44, 1870.

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and linked up with Thecodontosaurus by von Huene<sup>1</sup>. I would accordingly like to place the genus Orthogoniosaurus under the family of Anchisauridae (Thecodontosauridae).

<sup>1</sup> Geol. u. Pal. Abhandl., Vol. XVII, p. 81, 1914.

#### Some Meteorological Proverbs of the People of Bengal

#### By CHINTAHABAN CHARBAVABTI

In a paper entitled 'Meteoroloyy in Ancient India' '1 MM. Dr. Ganganath Jha has shown that meteorology as a seince we cultivated in ancient India. He draw the attention of scholars to the fact that there were a good many works in Sanskri which dealt with the subject either exclusively or incidentally (as in astronomical works). He brought together in his paper the meteorological information that was seattered in se early a work as the well-known astronomical work, the Brhatesnhiki of Varsha-mihira (6th-6th century) traditionally associated with the court of Vikramāditya as a contemporary of the great pock Kālidāsa.

Stray sayings can, of course, be gathered from still earlier works. Thus the grammatical work, the Mahābāgya of Patansaii (3rd century B.C.) has a couplet—it may possibly be a quotation—which refers to the climatic effect produced by lighthing assuming different colours. It runs:—

# वाताय कथिका विद्युदातप्राधातिको श्विनी । स्रामा सर्वविनामाय दर्भिकाय स्विता भवेत । \*

"Lightning having a brown colour indicates storm, that having a deep red colour forecasts sunshine. Lightning with a black colour forebodes total destruction, while white-coloured lightning rives an indication of famine."

lightning gives an indication of famine." The Kösskö, commentary on the grammar of Pāṇini, reads मोता बर्मोच विचेचा as the third foot and this means 'yellow-

coloured lightning should be taken as an indication of rains'.

There is also a Sanskrit proverb, according to which 'clouds in the west are not fruitless'.4

Meteorological beliefs in the form of popular sayings and proverbe—in some cases at least going back to a fairly old age—are also known to be prevalent in the various Indian vernaculars. A collection of these will be of some importance to the

¹ Allahabad University Studies--Vol. I (Allahabad, 1925)—pp. 1-11. 2 Mahābhāga—Benares, Rajrajawari Press ed., p. 186 (vol. II); kisihoru—p. 449 (vol. I). The latter reads the third foot as বীনা ধৰনি ব্যাধা (reliow lightaing indicates crops).

<sup>9</sup> Under Papini II, S. 13. 6 खलोबाः पश्चिमे सेवाः ।

study of the development or popularity of the science in India. Students of the science may also investigate if some, at least, of these beliefs have any scientific bearing or they are all mere superstitions. Even if they are nothing but superstitions they are not of little importance to Anthropologists. Meteorological superstitions have almost a universal character being popular among various peoples of the world and a comparative study of them will be highly interesting.

Meteorological proverbs of the Bihar side have been collected in the Bihar Peasant Life of Sir George Grierson (pp. 281 ff.) and Bihar Proverbs of John Christian (Nos. 437 ff.). Almost the whole of class V of the latter work deals with meteorology.

These proverbs of Bihar are believed to have originated from a son of the celebrated astronomer Varāhā-mihira by a

shepherd girl.1

In the present paper, I propose to collect some of the meteorological proverbs current among the people of Bengal. The collection does not, of course, claim to be exhaustive. I have gathered them from the sayings of Khanā and proverbs current among the people of my native district, Faridpur, in Eastern Bengal. Nos. 6-20 are attributed to Khana, who is also traditionally connected with Varaha-mihira. It is stated that Varaha deserted his son, Mihira , on the ocean after his birth for his calculations went to show that he would be very short-lived. The child floated and reached the King of Ceylon who brought him up and got him married to his daughter Khana. It is this Khana, who had turned out to be a great astronomer like her husband and father-in-law, who is believed to be the author of these savings.

Some of the proverbs collected here seem to be fairly old though the date of none can be determined with any amount of certainty. The value of at least some of these from the standpoint of meteorology needs be carefully studied as they are apparently based on a minute observation of atmospherical conditions. They are highly popular among the peasantry and boatmen of Bengal. It is from these proverbs that they take timely precautions against approaching rain and storm; and it must be admitted that they are not generally deceived. If, however, they err, they err on the side of over-precautiousness.

### यत बर्जे तत वर्षे मा।

'As the roaring, not so the rains, i.e., if the clouds roar much the showers will be little."

2. Sometimes at the time of sunset the sky becomes unusually red. This is called the or red evening. A red

Dr. Jha (op. cit., pp. 2-3).
 It should be noted that according to this tradition, Variats and Mihira were the names of two different persons.

evening is supposed to give a forecast of the weather of the next day. The proverb runs:—

## भाइतर मुखे खड़ा

### खडार सखे भडा।

- 'If the red evening follows a stormy day, there will be dryness (i.e., cessation of rains); if it follows a dry (rainless) day, there will be storm.'
- 3. Clouds in the south are regarded as sure indications of teni in the months of Andha and Srivan, (July-August); those in the north are believed to be similar indications of rein in the months of Cairra and Vaiskita (May-June). North-wearquarter is popularly called the stormy quarter and clouds in that quarter are supposed to bring about storm.
- 4. It is believed, in some parts of Eastern Bengal, that the weather condition of the month of Pausa (December-January) gives a forecast of the weather of the following year. The saying goes:—

## चादि चले निज मास

# मीन हैते तुका।

## मकार कुम्भ विच्छादिया

# मास खाटाइया गेला। 1

You (i.e., the month of Pausa) pass away forecasting the weather conditions of the year: in the beginning (1½ days) and the end (1½ days) you give a forecast of your own (i.e., the month of Pausas) [in the following year] and then the yeary two days and a half] you give an indication of the weather conditions of the months beginning from Mins (the sign of Pinces, i.e., to month of Catins) and ending with 2018 of Makear (Capricorn—month of Magins). Kumbha (Aquarius month of Phaliguna) and Vicohā (Scorpio—month of Agrahāyana).

# व्यक्ति कृष्टि आड़ क्य कुड़ी।

'Twentieth of Jyaistha and the storm becomes old, i.e., loses its ferocity after the 20th of Jyaistha (May-June).' 2

Though highly popular it has undergone material changes from mouth to mouth and it is difficult to trace the original.
 But, as a matter of fact, storms in the months of Aireing and Körniss (September and October) are the most furious.

Savings of Khana. 1

6. पीचे गर्मन वैद्याखे काड़ा: प्रथम खाबाठे भरवे गाडा:

खनावते सन हे सामी।

खानसम्बद्धाः वृक्षाः । स्थातसम्बद्धाः नाष्ट्रको ग्रानि ॥

'It the month of Pausa (December-January) is hot and there is cold in the month of Vaiskhta (April-May), pits will be filled in the beginning of Assfaha (June-July) [i.e., there will be heavy rain]. 'Listen, O my inuband', says Khanā, 'there will be no water (i.e., rain) [in that year] in the months of Srivana and Bhādra (July-Auvauh).

7. चैत्रेते यह यह ।

वैधाखे अन्डपायरः

ज्येकेते तारा फुटे। तने जानने नर्वा नटे।

"If there is shivering cold in the month of Caitra (March-April, bail and storm in the month of Vaisākh (April-May), and stars become visible in the month of Jyaistha (May-June), know it [to be a year of] heavy rain."

8. पौबेर क्षया वैद्याखेर पता

य दिन ज़ुयात दिन जला।

व्यार सब दिन दिन ॥

'If there is fog in the month of Pausa (December-January) the effect of it will be [noticed] in the month of Vaisakh (April-May). There will be rain for so many days as there was fog.

9. ग्रानिर्सात मङ्गतेर तिन।

'If the rain begins on Saturday it will last for a week, if on Tuesday, for three days, and in the case of other days it will last only for a day.'

10. वत्सरेर प्रथमे देशाने वास ।

से वत्तर वर्षा खनाव कथ ।

<sup>1</sup> The sayings in the present paper are taken from Khanār Vacan, wish Bengell explanation, published by P. S. Bhattscharys (Srinash Library, 28/1, Beadon Row, Calcutta—1315 B S.).

'If in the beginning of the year (i.e., in the month of Vaisakha) wind blows in the North-east corner, there will be [heavy] rain that year—so says Khana.'

11. भादरे मेचे विपरीत वास।

से दिने भडवूछि इय ।

'If wind blows in the direction opposite to that of the cloud in the month of Bhadra (August-September), there will be rain and storm on that day.'

कि कर अनुर लेखा जोखा।

सेचेड सभावे जलीर लेखा।

कोदाले कुल्ले मेथेर गा।

मध्ये मध्ये दिआहे वा !

इसकाकी विकास विद्याला। स्थान गांच्य चले काला।

"What calculations do you make, O father-in-law? You will get indications of rain from clouds themselves. If clouds are of the spade-axe appearance? and there is cocasional wind, you will ask the farmer to fix the ridge of earth dividing fields; for there will be [rain] to-morrow if not to-day."

13. व्याष्ट्रकाकी चन चन

दृष्टि इवे भ्रीत नान ।

'If frogs croak frequently, know it, there will be rain in no time.' (Cf. Rgveda VII, 103.)

14. पूर्वते खठिकः आन्द

**ढाक्रा डोगा रका**नार।

'If the rain-bow is seen in the east, land and pond will become the same (i.e., there will be excessive rain).'

15. मच्चिमेर सञ्जीतस्य खरा।

पूर्वर घतुवर्वे अन्तरा। °

<sup>\*</sup> Pieces of cloud scattered in the sky are said to be of the spade-axe

type.

S Another reading is appr.

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'If a rain-bow is seen in the west there will be eternal dryness, (i.e., drought); if in the east there will be torrential or heavy rain.'

16. चाँदेर सभार मध्ये तारा ।

वर्षे पानि सुवनधारा ॥

· If there are stars within the halo of the moon, rain showers in torrents.'

17. दूरसभानिकटणका

निकट सभारसातताः

'If the halo be at a distance from the moon, rain is imminent; if it is close to her there will be destruction (i.e., on account of drought).'

18. वासून वादण वान। दक्तिके पेलेड यान।

'Brahmin, shower, and flood go away as soon as they got daksinā, i.e., the first goes away as soon as he gets the sacrificial fee and the last two subside as the southern wind blows.'

पूर्व स्थाना दे दिल्लासा वय ।
 सेद्द स्वत्सर वस्ता इय ।

'If southern wind blows in the middle of Aṣāḍha (June-July) there will be flood that year.'

20. वामे घान।

तेंतुंसे वान ।

"If mangoes grow abundantly there will be much paddy; if there is a luxuriant growth of tamarind there will be flood."

Literally "paddy to mangoes; floods to tamarinds."

There are also various proverbs dealing with the effect of weather—specially its bearing on the agricultural products of the land. Some of these attributed to Khans have been quieted by Dr. D. C. Sen in his Bistory of Bengoil Language and Lieterature? [pp. 20 ft]. I should conclude this paper with a reference to two sayings of Eastern Bengal pertaining to the effect of rain on the growth of fish and the climatic condition of

<sup>1</sup> Published by the Calcutta University.

the land. It is believed that rain on the last day of the mouth of Aśvina (September-October) has the effect of turning fish into snails. It is also said 'less rain double cold '.'

P.S.—Similar proverbe of Assam attributed to one Daka who is supposed to have been a native of Lehi-dangara village in Barpeta have been given in Assaniya Sāhiyar Göncki or Typical Selections from Assamese Literature (University of Caloutta, 1929, Vol. 1, pp. 126-133).

। जना दृष्टि दुना शीतः।

#### The Cuit of Baro Bhaiya of Bastern Bengal

(A form of Demon-worship.)

#### By CHINTAHARAN CHARBAVARTI

The study of the religious rites of the village folk of different parts of India is often very interesting. There are many such rites of which no trace is found in any scriptural text. But in spite of this they are respected as much as, and, sometimes even more than those that are specifically prescribed by the scriptures. They are highly popular among the rustic people, and even in higher society, especially among the women-folk. In most cases, however, these rites have been given right scriptural forms, i.e., the details of scriptural worship are strictly observed in them and the manner obtanted are in Sanskrif, sometimes, though rarely, intervoves with manners in vermacular or the complex peculiar properties of the size of the control of the properties of the size of the control of the properties of the size of the size

Some of these rites are undoubtedly ancient and retain palpable traces of primitive religion; though there are some which seem to have originated in a comparatively later period. On the whole their importance to students of Anthropology is considerable.

With the progress of modern civilisation most of these rice are fast falling into disuse and unless carefully prepared records of them are kept in time, they will soon be totally forgotten.

No comprehensive work in this line has as yet been undertaken. In Bengal descriptions of various rigies of different districts are from time to time published in the vernacular periodicals and a few separate publications dealing with these matters are also known. But very few of them have been worked out in a real scientific spirit. And little has as yet been done in English to popularise these among the world of scholars, scholars through various Crientia and Anthropological Journals, a bibliography of which is under preparation by the present author.

In the present paper I am going to describe a peculiar cult that is prevalent in some districts of Eastern Bengal. My description is primarily based on my own observations in my native place at Kotalipada in the district of Faridpur. In other

places also similar rites are known to be performed. It may be styled the cult of Baro Bhaiya or Twelve Brothers, as the twelve brothers along with their mother (Vana-durgā) and sister (Rana-yakṣini) are the chief objects of worship in it. It is popularly called the cult of Vanadurga (the mother of the 12 brothers) or Nisanatha, Nisa, or Nisai (one of the 12 brothers). It should be pointed out here that these brothers are described as demons (daityas) and their mother as 'the mother of demons' (danava-mātā). They are all represented as being dreadful in appearance. As a matter of fact their demoniac character is abundantly made clear by their physical features as described in their dhyanas. They are all evil spirits as the names of some clearly indicate and as it is generally supposed that any displeasure or wrath on their part brings about diseases or other calamities. Of the names of these gods gabhura-dalana means the oppressor (dalana) of the young ones (gabhura); 1 mocrasimha means 'the great one who strangles to death'; nisā -nātha means 'the lord of the night.' They are said to be always on the alert so that they cannot tolerate any disrespect on the part of the people who are therefore greatly afraid of them and are very particular in offering worship to them. One of these deities, e.g., vanadurqā, has been described as a tree-goddess from the fact of her worship being offered under a tree and her having no separate image (S. C. Mitra in 'Man in India', 1922, p. 228).

There is no fixed time for the worship of these deities. The worship is generally performed at day-time on Tuesdays and Saturdays (which days of the week are generally regarded as specially auspicious for Tantra worship), and specially on the occasion of prevalence of diseases in a family, to appease the wrath of the deities which is supposed to have brought them about. No images of these gods are generally known to be made The image of one of these brothers, e.g., Hari-Pagala (lit. Mad Hari) is however to be found in a house at the village of Unasia in Kotalipada.

The worship is performed at Kotālipādā at the base of a big Asvattha tree 2 in the aforesaid village of Unasia, the place being known as Niśāi-kholā or the place of worship of Niśāi. There is no provision for any daily worship here as in temples.

Nothing can be said as regards the antiquity of this worship. But this much is certain that the names of some of these deities bear undeniable traces of vernacular influence (cf. Gabhhūra-dalana, Mocrā-Simha, Hari-Pāgala) drawing our attention to the probability that the cult might have been prevalent

<sup>&</sup>lt;sup>1</sup> I am indebted to my former teacher, Dr. S. K. Chatterji, for this

interpretation.

At other places the worship is performed under a sheers tree or under a branch of that tree placed on the floor of a room.

originally among the unlettered mass, not unlikely outside the

fold of Arvanism. The process followed in the worship agrees fully with that laid down in the scriptures with regard to worship in general (e.g., सञ्चल्य, घटकायन, मखेद्यादिनानादेवतापूजा, ध्यान, पूजा, विज्ञ, etc.). Goats, buffaloes, and sheep are sarrificed for propitiating the deities. But the heads of the sacrificed animals are not taken back and are left in a hollow in the tree. It is probably for this reason that when promising sacrifices to these deities people are found to say, "We will present to you HALF a goat if my son is cured," etc. etc.

Mantras used in the worship are all in Sanskrit. In the manner of tantra worship monosyllabic vijamantras are associated with each of the deities. Several mantras in Bengali, as quoted below, are also chanted when offering the animals to

the gods.

### रक्षमुखी योगिनी रक्षतुम्ही सुद्र इत्तग इत्यहोस्

ष्ठेच खिड<sup>1</sup> तद्द विधर खाचा (जिलार आया)।

Red-mouthed, red-faced, terrible witch, I shall sacrifice the goat. You take the blood—this is the order of (the goddess) Kālī.

चिनयन दश्रवाज श्ररत्वाची देवी चल्छि काविका मा

सुद्र हाग हिस्होम् तुद्र दिवर खा कालिकार बाहा।

O mother Käll, the terrible goddess, the Käll of autumn with three eves and ten arms, I shall, etc., as above.

व्यस्तरवं चारियो जिवशेषरी विष्याचिनी चिक्क काविका मा O mother Kall, the terrible goddess, riding on a lion, the queen

सह काम किछोम तह दिवर या कालिकार आचा।

of the gods, the destroyer of the demons, I shall, etc., as above. In some places the worship is performed by the lower class people alone, who sing, dance, and make merry. I have obtained two songs of these people from Dr. Surendra Nath Sen, M.A., Ph.D., of the Calcutta University, collected by him from his native district of Barisal. They run thus :-

### " यो मा च्यक्टाकि जो ं बारो चादता<sup>3</sup> वैवा मा तुर क्षेत्ररे बोबा को "

<sup>&</sup>lt;sup>2</sup> Here the name of the particular deity to whom the offering is to be made is mentioned and the direction is thus given in Sanskrit in the MB. :--वर्षी देवताचे मिखदेवा ने जांच दत्वन सम्बोधनामातदेवतामास प्रयोक्तव्यक्तित

s in the place of পাৰ্থ আৰ্থা (twelve delties) the name of the parti-oniar delty is also mentioned.

"O Mother, come down to play with the 12 deities."

# " आर्रेर चाडिया चाडिया चाडिया रे सचे जासिया फ़ज अन्दादे खोला चाइका दे"

"O sweeper of heaven, come down and shower flowers. Make the place of worship clear."

Leaving out of account these few lines in Bengali it will be seen how carefully the whole worship has been made to conform to the Tantra form. Most of the deities have been given to the Lantza form, most of the declares may been given sivate attributes and implements. Of the weapons and implements mentioned, matted hair (I, XII), the trident (IV, VII, IX), tiger's skin (XII, XIV), snake (I), axo (V), club (II, VII, VIII, XI-XIV), skull (I, IX) are all Sivate. This points to the immense popularity attained by the Tantra form of worship. It shows how village cults were affiliated to Tantricism. We have here clear evidence of how a popular cult current possibly among people beyond the pale of Aryandom and thus having nothing to do with Sanskrit was later affiliated to Aryan culture. The first and most indispensable step for that purpose was this Sanskrit garb and the assimilation with the usual form of worship. Even from behind that garb the original state of things peeps through the vernacular names and mantras. This kind of borrowing or assimilation is not a rare or unknown fact in the chequered history of Hinduism. We shall not be surprised if later investigation traces this cult or its precursor to Pre-Arvan times.

The dhyanas give anthropomorphic details of the deities though no images are made. They are given below with English translations, for the purpose of drawing attention to the nature of the deities.

I. VANADURGA! (The Wild Durga).

देवीं दानवसातरं निजसदाद्यांच्यक्ताचानास् दंद्वाभौसम्खी जटा निविजसन्तीनि कपानस्त्रस्य । वन्दे जोकभगद्वारी वनद्विं नागेन्द्रदारीकवतास सर्पावडनितम्बविम्बविष्ठकां वास्तान् चनुर्विभ्वतीम् ।

<sup>&</sup>lt;sup>1</sup> The worship of Vanadurgs is described in a slightly different form by Mr. S. O. Mitra in Man in India (1922), pp. 228-41. But he dose not refer to the anthropomorphic details of the goddess. Neither dose he refer to the 12 brothers.

I bow to the Goddess, the mother of the demons, with big eyes whirling on account of her own intoxication, a face dreadful on account of the teeth, a head looking smart on account of tufts of matted hair, a garland of skulls,—fearful to the people, cloud-coloured, bright on account of a necklace of big snakes. huge with anklets covered with snakes, holding arrows and a bow.

# II. KRSNA-KUMĀRA (The Black Youth). क्रवावशे महाकायं खद्रखद्राद्र'धारियमः

श्रीताश्ववाद्यनं देखं रक्षमास्यात्रवेषनमः

Virtual forms of a golden of the name are maximost. An eight-hanced Vana dengt is described by Ognista Res on its Rifferent of life, the Concept by (Vol. I, Pt. I. p. 363). A sixteen-handed duty of the same name narrounded by youing madeau is referred to in the Tantes compilation 185m sengueuden-positions (Trivandrum Sanatris Series, Pt. I., pp. 10-2-5). Three aspects of the dotty sent to be represented by or other of the aspects according as the wooshipper aims at gaining to or other of the aspects according as the wooshipper aims at gaining (1) victory or protection, (2) weather or Kingship, or (3) the destruction of commer. Her third aspect is thus described in two dhysinas. Is will be motived that in this aspects he show a resemblance to our 'demonstructions' of demonstrations. mother '.

## प्रश्रं चर्मा धनः क्यालस्त्रते सृष्टिं गदासञ्जय चनं खब्दारी चित्रुवकुविद्यपासाधिपाद्यान् सुनैः। कालांतां उपतीं सारेडननिमां का प्राचितात्तास्वरां सिंक्सामक्रियमां रिप्रवेषे प्रार्टनविकीस्तिमः

One should meditate on that three-eyed, cloud-like deity who carnes One should manditate on that three-eyed, cloud-like deity who carries in her hands the cound, dies, bow, skull, mace, fist, club, hock, sword, arrow, trident, bolk, barbed dars, fiery nones—who has taken up liger's skin as her cloth, who stands on a lion, has the sanks as her ornament, and who plays (i.e., moves) like a tiger on the occasion of silling enemies. [It will be noted that the marker of the veres is technically called in metrology éärdüla-vikridita.1

सिंह्यां कथितास्त्रभोडप्रमुनां विद्युत्रभाभौषतां रताकस्पराणकृषार्यक्यां अका कुमारीमधैः। सब्दा विविधायधैः परिद्यतां दुर्गी तथा साहभि-धारित तो कवितां सञ्चासरवधे प्रस्तास्त्रधारास्त्रसः

One should mailtake on that three-year Durgst surrounded by the mailtans and the monthers equipped with various respons, siding on a lion, having sixteen hands (adormed with) the waspons menisoned above, severable and bright like lightuing, having red ornaments and necklases and broselets of makes, who is sugary and drops showers of wespons on all broselets of makes, who is sugary and drops showers of wespons on 1.1-4 about happed like the food of a bed-stead, f.-a, a club or staff with a skull at the top (considered as the weapon of Sive and carried by section and yoginin)—M. Williams. According to T. Gopinals Rao is

## कोराखं सन्दरं सुखं विश्वाचं विश्ववेशकम् । वन्दे सवाक्रमारच् भवदं यौतवाससम् ।

- I how to Kṛṣṇa-kumāra a demon black in colour, big in body, terrifo, beautiful and white, holding a sword and a club, having a white horse as his carrier, a red garland and red ointment, a smiling face, tawny eyes, tawny hair, yellow cloth.
  - III. PUSPA-KUMARA (The Flower Youth).

एक्षप्रकामधानायं ग्रव्यापधरं श्रम्। प्रवासाक्षधरं मानां दिवागयाष्ठवेषनम् ॥ तप्तकाष्ट्रग्रवामं वन्द्रप्रवाकृतारकम्। रक्षात्रवाष्ट्रग्रेक्ट्रग्राखं रक्षवास्त्रम्॥

- 1 bow to Puspa-kumāra—the supreme, handsome, cruel, big in body, with flowers in hand—holding a bow and a garland of flowers, besmeared with celestial perfume, having the splendour of the colour of heated gold, red-faced, red-olothed, and having red horses as carriers.
  - IV. RCPA-KUMARA (The Beautiful Youth).

वन्दे काञ्चनवर्धामं दिसुनं ग्रूनश्चककम्। सन्दरात् सन्दरं शान्तं वानासम्बदिशास्त्रिम् । सन्तरेनं स्कवन्तं स्क्षामान्त्रावृत्तेपनम्। स्वं भ्राता यत्रेडोमान् देखं क्षमक्षास्त्रम् ॥

रव धाला यजडामान् दक्ष रूपकुमारकम् ॥ I bow to the God with two hands, having the splendour of

the colour of gold, with a trident in the hand, more beautiful than the beautiful sene—the peaceful one who roams among various flowers, red-eyed, red-clothed, red-garlanded, and beameared with red outners. A wise man should worship the demou Ripa-kimfar meditating on him in this way.

is 'a curious sort of club, made up of the bone of the fore-arm or the leg to the end of which a human skull is attached through its foramen.' (Elements of Hinds Iconography, Vol. 1, Pt. 1, p. 7) Waddell in his Buddham of Trest (London—1895) translates it as pike and he gives a picture of it (p. 340-1).

ture of it (f. 546-1).

1 is sections that the deity is described here in the same breath as black and "white". But such contradictory estatements are not as black and "white". But such contradictory estatements are not represented in the same death of the same death, and the same death, and the same death, are also made with. As manked to bette, with respect to the same deaty, are also made with. As manked for since the same deaty, are also made with. As manked to be the submoderation and material inaccuracies which may not sulfixely be used to be as unbined death of the submoderation, which contradicts of the submoderation of the

<sup>2</sup> Wi is another reading.

V. Hari-Ploata (Hari the Mad).

प्तं जतुरं<sup>1</sup> परमं सपाप्रम् ।

बाष्यितं निवसदैः स्वतितं <sup>2</sup> सकाकं यजेकाकानं कृष्टियासकारकाः

One should worship the great Hari-Pāgala who is very beautiful, whose dress is that of one mad, who holds a dub, an axe, and a noose with his lotus-like hands, who whirls and slips on account of his own intoxication.

VI. Madhu-Bhāngara (The Breaker of the Honeycomb [†]).

रक्षास्त्रनेचं पित्रनसभावं

सदा यणणां विश्वित्वासम् । व्याविर्वतं निजमदैः स्वतितप्रपादं '

भ्यावेत सदैवं मधुभाष्ट्रराख्यम ॥

One should meditate on the good demon, Madhu-Bhāṇgara by name—red-faced and red-eyed—who is insincere in behaviour, who is always worshipping, who has a full face, who whirls and whose feet slip on account of his own intoxication.

VII. ROPA-MALIN (The Beautiful).

बकामास्त्रघरं खेतं बकावस्त्रं चतुर्श्वम् । ऋतवस्त्रप्रशंकात्रघारिकं १ समनोक्तरम् ।

भूजनकाराज्यनं कानां समारं कपमाविनम् ।

रीर्वश्यं रीर्वकावं माध्यकाश्वरादिकम् ।

(Bow to) the youthful Rūpa-mālin—the white, the beautiful and highly attractive—who has four hands, who carries a garland of gold, has a golden cloth, who holds a trident, bolt, arrows, a bow, a notee, and a club, who has a black horse as his carrier, and who is tall in body and has long arms.

<sup>1</sup> Correct metre would require a long if instead of a short one.

<sup>्</sup>ड अव्यक्तिसा—is another reading.

<sup>\*</sup> The may and the reading.

<sup>-</sup> According to rules of grammar no syntactical connection is possible between - কাৰ আৰু বাৰ্থাবৈত্য !

VIII. GIBHCRA-DALANA (The Oppressor of the Young Ones).

े दीर्षच्यां दीर्षकायं पाद्यस्थात्रधारियम्। क्षव्यावयं रक्षणेयं जन्मकयं ज्ञापीदरम् । रक्षत्रकारमं कृतं रक्षत्रन्यानुकीयगम्। ग्रामानकणं वन्ते चल्लोकोसकारमः ।

I bow to Gābhūra-dalana—oruel, terrific to the whole whole world, black-coloured, red-syed, short-bellied—having big hands, a large body, and hanging ears, holding a noose and a club, wearing a red club and anointed with red sandal paste.

 MOOBĀ-SIŅHA (The great one who strangles to death).

> रक्षाकृतेचो भगरो जनानां सूलं कपानं<sup>)</sup> करपञ्चलेन । रक्षास्थणकाः पिसनकाभावः

> > सदा जहाँ ? भीमसखो विभाति ।

There shines he with a dreadful face, red body and red eyes, red face and red hands—always dull, terrific to the people. cruel-behavioured, and (holding) a trident and the skull with the lotus-like hand.

X. Nisi-Nitera\* (The Lord of the Night), स्राव्यवर्धे रासनेचं निष्याचीरं भयानकस् । प्रास्त्रच्यां दीर्चनवृं विकटास्यं दिगम्बरम् । कराजवरनं घोरं \* गुळ्कदिवं साधोदरम् ।

धावेत् सदाक्रोधयुतं चयदाचर्धस्वादिनम् ॥ राजौ चारमस्चिक्तेष्वरं दिश्वसम्बद्धमः ॥

One should meditate on Niis-Caura—the terrible, the naked, black-coloured, red-eyed, ever angry—having a Śakti

<sup>1</sup> WIN is another reading. I WINCI is another reading. Is with his is the principal deity of the group. It is not quite elser as to how he cause to be styled bild. Guarts (thield of the night). Popularly he is called Mistattha, or simply Nist or Nisil. The dhydan refers to him the state of the control of t

<sup>4</sup> Another reading is will i

(weapon) in the hand, with tall thighs and terrific face, emaciated body and short belly—one who makes a rattling sound of bells, roves at night, has two hundred heads, and holds a sword and skin.

XI. SCCI-MURHA (The Needle-faced).

सीर्थास्त्रजेषः विज्ञतस्यभावः

सदा समाद्रो भवदी जनानास्। सन्ययक्ती विद्यः प्रसादी

खद्वाक्रचको विमुखो वभासे <sup>2</sup>।

He shone—he who has a long face and big eyes, an everemaciated body, a deceitful behaviour, a face like the point of a needle,—he who is terrific to the people, is careless, sorrowful, and has his face turned away.

XII. MAHA-MALLIKA (The Great Goose [?]).

विभाजनेचः पश्चिम्भवेत्रको स्त्तीः समस्तिभवदो जनानाम् । कराजदेष्टः कमजासनद्यः जदम्यमानी कुटिकः सम्माष्टः ।

श्रीमन्त्रशासिक एव भाति गोमायुरावी व विस्तृतो नटीयः। खट्टाक्रधारी न्द्रवासमासी ब्राई समझाहतसर्वेगायः।

Here shines the handsome Mahamallika—crooked and terrific to the people on account of blood and flesh—with large yea, a full face, high, projecting teeth, emaciated body, two hands, a tuit of matted hair,—seated on a seat of lotused having garlands of skulls and kadambe flowers, covered all over the body with the skin of the tiger, holding the club, and making sounds like jackslar.

XIII. Bali-Bhadra (Bali the Good).

क्षप्राष्ट्रवद्धाः स्वटिकाष्ट्रयस्टिः

सक्रोधनेत्रः कपिकाक्षकेग्रः।

वङ्गाष्ट्रकः वरस्रभारी '

1 दुरसम्बद्धी is another reading.

स वाकिश्वतः प्रमुख्यकायः है।

s विभावे is another reading.

<sup>ः</sup> जोवायुवासी is another reading.

<sup>4 ---</sup> Till is another reading. 5 Tivere is another reading.

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He, the Bäli-bhadra, is emaciated in body and face, has a crystal slim body, angry eyes, tawny eyes and hair, carries the crow and the vulture, has a club in his hand, and has a murderous appearance like that of a beast.

XIV. Rapa-Yakşışı (The Yekşişi of the Battle-Gold). दीर्घाकी दीर्घनेका ग्रुवकुषपुगणा पौरदंष्ट्रा कराणा रक्षाच्यो रक्षवर्धा र विश्वपनकक्षका ग्रुवकावावशक्षक हो । मक्सव्यवहाकुषाधान् । कर्पुगविष्यता विधिवनेतापनका निकं सावास्त्रिमक्का रक्षपनकारा पण्डिको टीचकका ।

Yakpint, the dreadful, has a tall body, long face, large open, a pair of heaving breasts, terrible teach, red eyes, a pair of colour, a cup of blood in the hand, holds the bell, the club, and the noose in her two hands—is covered by a garland of skulls, is clothed in the skin of the leopard, always feeds upon fleeh and bones, and stays in the field of battle.

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<sup>1</sup> ह्यावर्षो is another reading. १ — स्ताडी is another reading.

<sup>3</sup> WIR is another reading. We have here a very loose syntactical

constitutes daysines and other details of worship are taken from a manuscript belonging to and kindly lenk by Pandit Gerinda Chandra Vylkaranatirtha. I had also the privilege of comparing two pranted books on rituals, contaming the details of the worship, published by the Sanakrit Book Depot and Sărawatan Pustakillaya of Calcutta. These latter books, however, do not refer to the Bengali mantras.

#### An Ancient Indian Story in a Bengali Vratekathā

By NILMANI CHAKBAVARTTI

Various rites and observances are current in Bengal. They may be classified under two heads, viz., (1) those performed by the maidens, and (2) those performed by married women including the widows The second class may be further divided into two sub-classes, viz., (1) the observances, the origin of which can be traced in some of the Paränas, notably in the Bhavisya and the Skanda puräna, and (2) those the origin of which cannot be so traced.

The observances of the maidens do not require any detailed worship. The worship is performed by the maidens themselves and the Mantras are in Bengali verses, in which prayer for a good husband, prespective of the father and brother, depressions upon a co-wife, etc., are often present. No history of the torigin of the tobservances has been handed down in the form of Kathār or stories. The second class of observances is often accompanied by a Kathā or story of the origin of that observance. The stories of the Pauranic observances are in Sanskrit, and those of the others are in Bengali. These stories are told by the mistress of the house. After the worship is duly performed by the priest the mistress of the house calls together all the female members who all remain fasting to listen to the Kathā. After listening to that and saluting before the deity, who is mostly a goddess, and praying for prosperity, they break their fast.

During the whole day they generally take one meal ouly and abstain from fish or mea. And abstain from fish or meal Many of the stories are now becoming obsolete with the passing away of old Hindu matroms. It is a fortunate thing that some of these stories have been collected and published. The most important publishedus on this subject are:

- (1) That published by the Bangiya Schityaparisat and
- (2) that published by late Babu Ashutosh Mukherjee.

It is not possible to say from what time these observances have become oursent, some of them at least are very old; e.g., Lakputpfijf or the worship of Lakput, the goddess of luck. In the Veds we find the Sriedits. In the early Buddhist literature we find mention of Séri, and on the reallings of the Bharhut stips we find a representation of the

goddess. In Bengal this deity is worshipped in every Hindu household. Unlike other deities she is worshipped several times in the year, wir, on the full-moon day of Kaivata (September-October), on the new-moon day of Kaivata (September-November), and during the bright fortuing to the mounties Bhātara (August-September). Posses (December-January), and Coliru (March-April). On accessors on the second control of the control of the standard throughout Bengal. Considerable variations are to be found among the stones current in the East and the West Bengal. For the present paper we are concerned with the story relating to the Kofagar Laksmipfja which takes place in the night of the full-moon day of Aśvina. The story is to be found in the Vartakatha published by the

takes place in the night of the full-moon day of Asvina. The story is to be found in the Vratakatha published by the late Babu Ashutosh Mukherjee. The story runs thus:- In a certain country there was a king. He started a market and declared that he would purchase every thing that would remain unsold in the market. One day a man brought an image of Alaksmi (Illluck) No one would purchase that. The king, true to his promise, purchased and brought that home. As soon as he brought home the image. his Laksmi (goddess of fortune) took leave in spite of the king's earnest entreaties. At the time of departure, however, the goddess granted him a boon which enabled the king to understand the language of all beings even of the ants and flies. With the departure of the goddess the king's fortune began to dwindle. One day the king ordered not to mix ghee with any of his dishes, and his order was obeyed. Some ants used to come daily to the spot where the king used to take his meal. On that day they began to sav amongst themselves that the king was impoverished; he could not have even ghee to eat. Listening to their conversation the king smiled. The queen, who was standing by, asked the king the reason of his smile. But the king said "I cannot tell it. If I tell you I shall have to die." But the queen would not listen to what the king said. She began to importune the king to reveal the secret to her. The king at last yielded and told the queen to accompany him to the bank of the Ganges, with a view to die on the bank of the sacred river. When the king went to the river bank a pair of goats were grazing there and a bundle of grass was being carried by the current. The she-goat told to the male one to bring the bundle of grass to her to est. The he-goat said "I cannot perish in the water for your sake. I am not a fool like the king to come to die for the sake of wife" The king understood the conversation of the goats and having soundly thrashed the queen drove her into the

jungles and returned to the palace. Later on, the queen performed the worship of Laksmi on the full-moon day of Asvina, in the forest, and the ill-luck of the king disappeared and the queen was restored to her former position.

In the earlier literature of our country we meet with two fables which are similar to the above story. In the collection of Pall Jātaka stories there is a Jātaka named Kharaputta jātaka (Kausbol Jātaka, Vol. III, page 273) which is in many respects similar to the above story and in the 35th sarga of the Ayothyskanda of the Valmiki Rāmāyana there is a story bears some resemblance to the above. The Kāraputa jātaka the story from the Kāmāyana are briefly given below.

The Kharaputta jātaka:-There was in Benares a king named Senaka, who had intimate friendship with a Naga-king. Once the Naga-king was angry with king Senaka owing to a misunderstanding on the part of the former. He, however, came to realise his own fault and came and apologised and gave a Mantra (a secret charm) to Senaka, by repeating which he could understand the voice of all beings. At the same time the Naga-king told Senaka not to impart the knowledge of the charm to anyone else, otherwise he would have to emolate himself by burning in fire. One day the king was taking cakes with honey and molasses. At that time a drop of honey, a particle of molasses, and a crumb of cake fell on the ground. An ant seeing that began to run to and fro saying that in the hall of the king a jar of honey was broken and a cart of molasses and a cart of cakes had been upset. "Come one and all and enjoy honey, molasses, and cakes." Listening to that the king smiled. The queen, who was standing by, began to think "why the king smiled". When the king, after finishing his meal, sat on the couch, a fly said to his companion "come let us enjoy". Thereupon she said "wait a little, presently they will bring perfumes for the king and when the king will smear his body with them, I shall sit near his feet and get my body perfumed by the particles falling from his body and then sitting on the back of the king we shall enjoy" Hearing that the king smiled and the queen began to ponder on the cause of the king's smile. At night when the king sat to take his food a lump of rice fell on the floor and an ant seeing that began to run to and fro saying sorrowfully that a cart of rice was broken and there was none to take rice. Hearing that too the king smiled. The queen, who was standing by, serving the king thought "surely the king laughed seeing me". At night when they lay down on the same bed, the queen asked the king the reason of his smile. The king said "you need not know that". But the queen was obdurate and the king at last disclosed to her the cause of his smile. Thereupon the queen requested him to teach the charm. The king said "If I teach the charm to you I shall have to die". The queen said "give me the charm even if you die by giving it". The king was too much under the influence of the queen. So he consented and thought of emolating himself by entering into fire after imparting the knowledge of the charm to her and with this view he, riding a chariot, proceeded to the garden accompanied by the queen.

Sakka, the lord of the gods, having seen the affair, while surveying the world, thought "this foolish king is going to sacrifice himself to please his wife; I shall save him". Thinking thus he changed himself into a goat and transforming his wife into a she-goat came and appeared before the chariot. The king and the horses of the chariot could only see them. The goat (Sakka) in order to raise a conversation pretended to have sexual intercourse with the she-goat. Thereupon one of the horses said "we formerly heard that the goats are fools and shameless. Now what we see before us agrees with what we have heard". But the goat said "you are yourself a fool inasmuch as you are surrounded by rope, with your lips crooked and mouth bent. Another act of foolishness on your part is that being set free you would not flee and it is a greater act of foolishness on your part that you are carrying Senaka". Thereupon the horse said: "I admit that we are fools but why is Senaka a fool?" The goat said "He having got a valuable thing is going to give that to his wife and thereby he would sacrifice himself". The king hearing their conversation asked the goat "who he was". And when the goat declared himself to be Sakka, the king requested him to find out a way out of the difficulty. Sakka told the king to inflict some blows with the whip, as the preliminaries to the taking of the charm, and thereby she would not be willing to take it. Then the king went to the garden with the queen and asked her if she would learn the charm. On her answering in the affirmative, the king told her that she would have to observe the preliminaries. The queen enquired "what is that ?" The king said "a hundred stripes will fall on your back but you will not be allowed to utter a cry". The queen consented. Thereupon the king ordered a servant to deal one hundred blows with a whip. The queen having endured two or three blows cried out saying that she did not require the charm.

The story in the Rāmiyana runs thuy:—When Kaikeyi insisted on banishing Rama for fourtean years and installing Bharata on the throne, Samaentra began to sook her in nasemos of Dasaratha. He said "you are following your mother's your conduct. A nim tree never sheds honey. Your mother's your conduct is well known to me. Your father obtained a boon from a sage by which he could understand the voice of all creatures. One night he heard the voice of a bird named /rimbha and having understood that he leaghed heartify. Your mother at that got angry and asked your father the

reason of his laughter. He said that he would have to die if he told her the cause. Your mother said 'whether you live or die you will have to say to me'. Therespon the king went to the sage who granted the boon and he told him that he should not tell, whatever the queen may do. The king hearing the words of the sage came and drove away your mother ".

The principal points of agreement and difference among the three stories are given below. The three kings obtained the secret from three places but though the sources are different the result is the same. In the story in the Ramayana the king laughed hearing the voice of a bird, but in the other two stories the king laughed hearing the voice of an ant. Again in the Jataka story the king laughed thrice but in the Vratakatha the king laughed only once. In the Ramayana story the king at the advice of the sage drove away the queen, but in the two other stories, the kings went to die secompanied by the queen, with this difference that the king in the Jataka went to the garden and the king in the Vratakatha, like an orthodox Hindu, went to the side of the Ganges. In the story in the Ramayana there is no mention of the goats which are found in the other two stories, but the goats in the Vratakatha are mere animals, whereas those in the Jataka are Sakka and his wife. In the Vratakatha the king and the queen are ultimately united but there is no such union in the other two stories. Again in the story in the Ramayana and in the Vratakatha there is no mention of the imposition of the condition of death on divulging the secret to another although the kings declared that they would have to die if they divulge the secret. I wish to point out here that there is nothing peculiarly Buddhistic about the Jataka story. If we exclude the introduction and the conclusion then it becomes an ordinary Indian story and there are many such stories in the Jataka collection.

In conclusion it may be said that the story in the Ramavana is the oldest and furnishes the basis of the Kharaputta jataka and the Vratakatha contains the Jataka story in a somewhat altered form.

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#### The Besthas of Nellore

### By S. T. Moses

Introduction. The othnology of our various Fishing eastes to improve the socio-economic condition of which, among other things, the Department with which I am connected is devoting its attention, has always interested me. The work of recording observations on their customs, beliefs, etc., done during lesium hours was hitherto confined to the West coast and to some Tamil districts in the South Last year, however, as Assistant Director of Fisheries, Inland, I had opportunities of doing similar work in the Telugu districts and this paper embodies the notes on a Tolugu fishing caste, it the "Bethas" of Nellore.

The Caste, its Names and Divisions. Two common synonyms of the Besthas are 'Boya' and 'Mothirazu'. The first name survives in the appellation 'Boy' given to that familiar servant indispensable in Anglo-Indian households. The name 'Mothirazu' meaning 'Pearl Razu' indicated, as a proverb current among them says, the caste was as pure as a pearl. It has a variant in 'Machi Razu' (Fish Razu) and my informant related the story given by Thurston in his monumental work "The Castes and Tribes of South India" to account for the 'Mutrachas' having taken to fishing, as the one for the modification of the name Mothirazu into Machirazu. They were originally Kshatryas and so being among the twice-born wore sacred thread. Once a party of Mothirazus while returning home after a hunting excursion, saw plenty of fish in a pond and yielding to a sudden temptation they used their sacred threads as lines and started fishing. They were unfortunately seen by some Brahmans while thus engaged and so they not only lost caste but got their new name 'Machirazu'.

The Besthas form one single community without subsections. The endogamous subdivisions "Pelaga; and 'Pazigirti' are no longer clear; all Besthas being Vaishnavites the subdivision 'Telaga, is perhaps extinct in Nellors. The 3rd division referred to by Thurston, 'Kabbli' or 'Kaberavandin', seems unknown. Among the Balig or Kavarat, however, is a subsection named 'Kavarativallu' whose cocupation is 'fishing and fish-selling'. These people have, however, nothing to do communally with the Besthas

Like all other Hindu castes the Besthas have house-names (Gotra or Intiperu) usually named after flowers. Some are named after crabs, prawns, and frogs (kappa). The frogs referred to here were explained to me to be not the true frogs

but the fish 'Ravana Kappa', the Jumping Goby (Periophthelmus). As usual the prohibitions eschewing members of the particular Gotra from handling the flower or animal giving its name to it are in vogue.

name to it are in longue.

Traditional Origin. The Besthas claim descent from Stutudu, the famous expounder of the Mahabharata, whose ancestry is traditionally traced to the progeny of Hanuman, whose stone figures are common all over the Telugu districts, by his unnow with a Water-nymph.

Occupations. The occupation of the Besthas to-day is as 'cultivators, agricultural labourers, porters, messengers, landowners, tenants, ransers of farm-stock, grass-sellers, fishermen, and sellers of fish ' The ancestral occupation of hunting and fishing is almost abandoned, many having taken to agricultural and miscellaneous pursuits The fishing done by the Besthas who are fresh-water fishermen, par excellence, is confined to the irrigation tanks, channels, etc. Fishing therefore is possible only for a few months in the year. Besides, the quantity of fresh-water fish available in the district is, as compared to the supply from the sea, considerably small, though stocking operations have of late added enormously to the catches. It is no wonder therefore that all except the old and the otherwise unemployed have abandoned an occupation which keeps them going only during the hot weather when the tanks, etc., run dry.
The industry of net-making which with net-mending is attended to by them just before the fishing season is negligible in its importance Some Besthas are literate—their keenness in the matter of the education of their children is something uncommon among fisherpeoples-and seek employment under Government, in mercantile offices, or under private employees as peous and other menial servants. The changed conditions as regards transport to-day have deprived the Besthas of one of their important subsidiary occupations. It is indeed curious that both in the Malabar and the East coasts palanquin-bearing should have been associated with fisherpeople as one of their sidelines During the days of the East India Company and earlier when transport facilities were practically non-existent and railroads had not been laid, the Besthas rendered useful service by carrying officials on palanquins on a system of daily wages In recognition of these services the Nawabs gave them the right to catch fish in some irrigation tanks free of payment. Even to-day, the Besthas of Nellore town enjoy the fisheries of Nellore and Surveypalli tanks, a nominal annual rental of Rs. 200 being payable by them, under the old prescriptive conditions.

Fishing Gear. The basket traps and cruives which are fixed in paddy-fields and irrigation tanks and the Edu vale, a bag-net, also fixed in irrigation channels, are used for catching fish-fry and immature fish. Of the traps the Joses, the one

most successfully used for catching the Murrel, and the Koduma, a higger contraption, are popular. The last is placed along the channel crosswise, the side facing the ourrent being that with two. This arrangement takes advantage of the lashit of fish usually swimming against the current. The common set in use— the insigning of the Beshias, ourrent. The common set in use— the singing of the Beshias, conton cast net, circular in shape and weighted with tiny metal beads at regular intervals along the permiser.

Ceremonies and Beliefs connected with Nets and Fishing. New nots are used after pujah is offered to the deity, usually the goddess When a new net is shot, the first haul is carefully gathered to see if inauspicious brutes like snakes have got in. If a snake were to be found among the first catches the net is summarily rejected and never more used. The tortoise is another of the mauspicious creatures. Whenever it is found in the haul, be it the first or a later one, the net becomes polluted but not unfit for use The tortoise is let go at once but the net is used again only after it undergoes a cleaning ceremony at the hands of a Brahman priest and has holy water poured on it by him. When a new net is used for the first time and no unlicky creatures are in the haul one of the fish caught is taken and the net smeared with the blood and entrails of the fish; then a strand is broken from the net to be dropped later into fire along with incense. A net touched by a woman in her menses is unfit for use unless a Punyahavachanam ceremony is performed by the Brahman priest, as in the case of the net defiled by the arrival of a tortoise in its haul.

When poor fishing results from their labours, the Besthas believe that the goddess demands certain susterities of them and so sleep on bare or hard floor and even practise sexual abstinance, etc., for getting better results. They, however, do not apparently favour joint action for they believe that drag-nets, to work which several men are required, are unlocky

and so do not adopt that method of fishing.

Puberty, Marringe, and Childbirth Customs. When a Beeths girl attain puberty she knote her hair up in a special way called 'Koppu'. She cannot during her first menstroal sechasion have her meals served in a metallic vessel as is usually done in her household; an earthen bowl is purchased for her exclusive use and later thrown away.

Marriago is, as a rule, of the postpulerty type, though child marriage seem to be not uncommon. Widow marriage is never permitted. Monogamy is the rule though under special circumstances ama is allowed to take a second wife, when the first is alive. If the wife is barren, or suffering from a tostshame disease like leproxy, or is of uncound mind, the beadman of the casts may grant him permission to marry another. In all cases the wife is formally required to give her consent, but if she is unreasonable, the headman can authorize the husband to go shead without it. But in most cases it is, our outly enough, easily obtained.

Pollution after confinement usually ends on the 10th day. But in the case of the woman who loses her first born the period is shortened by 1 or 3 days then and for every subsequent confinement. The day of her bath after which she ceases to pollute falls then on the 7th or 9th day. A curious etiquette is observed among the Besthas on the bathing day. The woman friends of the convalement mother visit her on that day and bring each a pot of warm water which is poured on her head during her bath.

The children are usually named after gods and goddesses, 'Iah' being the termination usual among boys and 'Ammah' among girls .

Adultery and Divorce. Laxity of morals is never tolerated in the community, and in fact severely punished, the delinquents being heavily fined or even excommunicated. If the outcastes are penitent, they are after sufficient time and on the payment of adequate renalities taken back into the fold.

Divorce is not easily obtainable. The complainant, wide or the husband, should produce sufficient cause for separation before such a decree is given by the headman. A curious feature in the divorce cases is that whoever the complainant, the husband has to pay the woman after the divorce a monthly maintenance allowance.

Food. As regards the dietary of the Besthas, all the usual animal and vegetable foods seem velcome except the taboos imposed on people because of their gates. Tortoises are, however, universally avoided as food. The flesh of the monitor which is sometimes hunted after is a favourite article of diet. It is also preserved in the form of a powdery meal and is said to be of great medicinal value. The Besthas as a class are not so much adducted to drink as the usual run of fisheric though dranking is much in evidence during festivals and other gala occasions.

Caste Organisation. The members of the community of each place obey a headman called the Pedda (greet) Boyada who is assisted by the Peddigul who is equivalent to the Theadman of other castes. The Pedda Boyada is accepted by the village community as the highest civil and indicial authority in the village, before whom all disputes among the members of the community are brought for settlement. All questions relating to morals, divorce, etc., are placed before him for final disposal. He has absolute powers to fine or outcaste the delinquents of the community. The posts of both the headman and his assistant are hereditary and they carry certain perquisites with them. These officers equip precedence over

others in the matter of being served with Paneuparsi, etc. during matrimonial and other functions.

Retigion. The Besthas are Hindus by religion and worship he local deities along with other Hindu castes. Vishna is worshipped all over, usually under the name Parkrathi. Some even consider him as one of the village deities. Their favourité deities, however, are the goddesses (!shadereatha!) to offer Pujah to whom they have constructed special places of vorship called 'Mandirama'. Here they congregate often to perform Bajanea or muscal services. The presets officiating at the Mandirama are of their own caste. These conduct daily Pujah as also the annual festival when animal scarfices are offered. A remarkable feature in connection with worship here is that ordinarily no animal fiels nor higher is over offered to the goddess. When fishing is successful and romunorative, it is celebrated by a grand fost-val with Pujahs. Bajanus and other demonstrations. This is often accompanied by much merrymaking and drinking. New mets are used only after Pujah to the goddess.

Marriages, funerals and purificatory corromonies are performed by priests not of the Bestia community. Only Brahman priests are employed to officiate during such functions. The services of Besthe priests are often requisitioned by other castes in connection with festivals in honour of terrible deities like Marammah.

Habitations The Besthas have no separate villages, Kuppams' or 'Palagama', as the sea-fishermen have. They hive in villages and towns along with other Hindu castes, though their houses are often located almost together. Being mostly poor, the houses are huts with thatched roofs though the well-to do live in more substantiab buildings.

General Appearance The men and women may claim to be classed as fair-skinned though most of them are sun-tanned. The men are tall in stature (Average height: 5 ft. 5 m., Maximum: 5 ft. 10 in. and Minimum: 5 ft. 1 in.) add leastthy and robust in appearance, though not thick-set.

t'unial and Nasal Measurements. Measurements were taken at places wherever possible like Nellore, Kavali, Tangaturu, Chundi, and Surveypalli and the total number of individuals measured was only 47. The nasal index averaged 75.6, the maximum 693. The ephalic index averaged 77.5, the maximum being 88 and the minimum 694.

Present Condition and Social States. Living as the Bosthas do, with other communities, they offer a healthy contrast to the usual type of flaher-community by being cleaner, more literate and more responsive to good indiuences. In fact, they develop signs of developing fast into a civilized caste. However, it is the memployment problem that is keeping most of them poor

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both in spirit and in worldly goods, and the general lot of the ordinary Bestha is rather pitiable. The Besthas occupy a low scale in the social status though the caste is considered to be high up among the low ones

#### Religion and kingship in ancient times

By J. C. DE

The relation between the State and the Church cannot fail to interest the student of Anthropology, because it gives rise to problems, on the proper, equitable and speedy solution of which, much of the progress and happiness of all the races of mankind In the persecution of the early Christians by Imperial Rome, the burning alive of Lollards in mediaval England. the nine religious wars of modern France, the Thirty Years' War of disunited Germany, and the terrors of the Inquisition and ironheeled despotson which crushed out the material of future national greatuess in united Spain, lay the fruits of an extremely culpable and unwise political judgement. Modern England was not exempt. The executions of the great More and others, the wail that followed the dissolution of monasteries, the butchering of prominent Protestants by Mary, the daughter of a no less cruel father, the obnoxious disabilities of various religious sects which remained in force till recent times, and the heartrending bitterness of the Anglo-Irish struggle at least in its modern phase, are a few of the evils which England had to face, for her inability to adjust the Great Relation in a calm and sympathetic spirit.

In the Bast also, the relation of the Throne to the Temple, the Mosque and the Church, aroused intense passion and be direct minshe discussion. When the trumpet call of the Prophet Mahammad created something great out of almost a nonemity, and the Creacent swept on from country to country, till if floated trimphant in Africa and Europe, the question arose—was therapy room for the non-believer under it? The gifted Mahamed an leaders rose to the occasion, and answered the question in a truly statesmanlike way for the moment, and great catastrophes were averted. But that was not the end, and many a Sultan in many a land allowed narrow bigotry to outweigh statesmanhip. It is to the credit of the Turk, that he extended a measure of toleration to his Christian subject, which, though contemptations, was certainly are in contemporary Europe.

In India, one of the earliest religions was Hinduism. Causes of its decay however appeared soon. <sup>1</sup> The advent of the world-religion, Buddhism, patronised by the great Maurya, hastened the collapse, and Hinduism very probably sank into a religion of the minority. But the decline was temporary.

<sup>1</sup> Prof. De : Kālidāss and Vikramāditya (p. 175).

Hindu sovereigns came to govern the destinies of India. and the revival of assamedka sacrifices sufficiently indicated the direction in which the wind was blowing. The revolt against the Sanghas was really against the foreigner, the Turki, the Parthian and the Scythian, as well as of the old against the new, of conservatism against reform. Mr. Havell calls it "a reawakening of the profound spiritual instinct" of the "race which found expression in a great renaissance" of "poetry, drams, and art" 1, and if we may add, the science of government. No accurate date can be fixed for it. It however, permeated the ideas and activities of the Hindu for centuries, and became as momentous to him, as the Renaissance which succeeded it nearly a thousand years afterwards, to the Christian. It blossomed forth thick and heavy during the Gupta Period which gave the Hindus that cultural comradeship which hinds them oven to-day.

The sources of information of this period on which reliance can be unhesitatingly placed, are the macriptions on stone, copper and iron, the numerous coins issued by the various rulers, and the contemporary accounts of foreigners. Our knowledge from Hindu sources can be readily checked and supplemented by Euddhisto ones.

The action and reaction of religious on political life may be treated first.

The accal position of a Hindu depended upon his belonging to any of the three higher castes, the Brihmanas, the Kahatriyas and the Vasiyas. The Sidras occupied an inferior status. The Capdiac, who perhaps belonged to the lowest stratum of the Südras, had to "live apart from others," and were "held to be worked men." "When they "entered "the gate of a city or a market place, they "had to "strike a piece of wood to make themselves known so that men should avoid them" <sup>2</sup>.

The fear of the spread of Buddhism, which taught the equality of mon, made the Brahmanas very leadues of their position. The ideal kept before them was rather high. They were expected to be (the inscription in quoestion says that they actually were) "cudowed with truth, patience, self-control, tranquility, religious vows, purity, fortitude, private study, good conduct, refinement and steadfastness," and "abounding in learning and penances, and free from the excitement of surprises" 3. Nuch an ideal conceivably enabled the Brehmanas to occupy the post of honour among their co-religionists on the ground of their worth. To kill or rob Brahmanas was to commit one of the free greats ins, and the guilty person was approposed to go down

<sup>1</sup> Havell: Aryan Rule in India-pp. 151-152.

Legge, p 48; Giles, p. 21.
 F.G. L., No. 18, l. 8

to hell 1. To marry the daughters of Brähmanas to suitable bridegrooms, and to "dower them with agrahara grants" on the occasion, were thought to be acts of merit, and Damodara-gupta for example, is praised for doing so 2. The respect shown to a Brahmana on account of his caste is also fully testified to by the copper charters of the period, a large number of which record the gift of land, vapis (cisterns), kupas (wells), etc., by the princes to Brahmanas for the "acquisition of religious merit" by the grantee, his parents and others.

We have also to remember that the Gupta Emperors themselves were probably Sudras, while the majority of the numerous subordinate rulers of those days were probably Kshatriyas 8.

We come across some princes, for example. Mahārāja Matrivishnu and his brother Dhanyavishnu, who were Brahmanas But apparently they were small in number

The Brahmanas were divided into various sakhas and carapas to facilitate the acquisition of a knowledge of the Vedas and the literature connected with them. It seems that the culture of the day was propagated mainly by them

The Manava Dharmmasastra (the code of Manu) and the Vayu Purana probably belong to the second or third century, the Yainavalkya Smriti to the fourth, and the Narada Smriti to the sixth century A.D. The science of astronomy was also greatly improved by Aryabhatta (born 476 A D ), Varahamihira (505-587 A D.) and Brahmagunta (598 A D.), while the art of architecture was practised on a large scale with emment success. The Mudrarakshasa was written by Visakhadatta during the latter part of the fourth century, and the dramas of Kalidasa were probably composed during the reign of Kumaragupta 1. Painting as exemplified by some of the best frescoes at "Ajanta and the cognate works of Sigiriya in Coylon (479 97 A.D.) was also practised with consummate skill " 5. Some of the emperors themselves, the most noticeable instance being that of Samudragupta, were also scholars of a high order.

Though it is certain that all of these leaders of thought were not Brahmanas, they however, generally speaking, were the finest exponents of the revived Brahmanical culture.

Raised by his social position, respected by his King, sanotified by a culture which placed him in the forefront, edified by the ideal of a virtuous life which was persistently kept before him, the hereditary Brahmana priest became a potent factor in the Hindu State.

<sup>1</sup> F.G. I., p. 38, a 4; No. 16, lines 11 and 12. 2 F.G. I., No. 42, lines 9 and 10 3 Beal; 81 Yu Ki, Vol. II, p. 237. 4 Dr. Bernett: Antiquities of India (page 90); Smith; E.H.I. 3rd elou, p. 305. 5 Ibid., p. 306.

Even in our own day, we find that the interval of centuries has not been able to efface this characteristic feature of Hinduism. His Highness the Maharaja of Alwar celebrated his jubilee in the afternoon of the 18th of January in a befitting way Surrounded by his chobdars and fan-carriers, seated on a golden throne, supported by his bodyguard in blue and gold on either side, faced by his hundreds of Sirdars and Durbaris wearing crimson turbans, and waited upon by thousands of his subjects, he presented a glorious spectacle It was "an imposing moment ". " when the priests chanted prayers, and His Highness was sprinkled with holy water no less than 64 times." "Another was when His Holiness Sankaracarya arrived at the Durbar." The Maharaja descended from the throne, and the Swami "hung a necklace round his neck." Later on "the three chief high priests gave special blessings and lectures the latter lasting an hour each."1

The noxt interesting question which indurally arises as, "what was the attitude of this Brimmanical state towards its Non-Brahmanical subjects." Brahmanism, Buddhism and Jainism were the three principal religionaduring this period. Besides these, there were the followers of Devadatta who "made offerings to the three previous Buddhas, but not to Sakyamuni Buddha." Ninsty-six heretoal "sects other than the Devadattans are also mentioned by Fa Hsien's.

Fa Hsien saw Buddhist monks and nuns all over Northern India At his first resting place after crossing the Indus, monks asked him about the Law of the Buddha 3. In Udvāna (almost identical with the modern Swat Kohistan) he found Buddhism to be "very flourishing," and there were five hundred Hinayana Sangharamas in that kingdom 4. Soc-ho-to (identical more or less with Buner), he noticed a tope of the Buddha "adorned with layers of gold and silver plates." In the kingdom of Purushapara (Peshawar), there were seven hundred monks in the Monastery of the Alms-bowl alone. "Of all the topes and temples which" Fa Hsien and his companions saw in their journeyings, there was not one which could be compared to this monastery "in solemn beauty and majestic grandeur" 6. In Pe-t'oo, the country between the Indus and the Jhelum, Fa Hsien found both Mahayana and Hinayana monks who supplied him and his companions "with what they needed, and treated them in accordance with the rules of the Law ". From Pe-t'oo to Mathurs the country was full of "a multitude of monks who might be counted by myriads." In

<sup>1</sup> The Statesman, Calcutta, Dak Edition, January 20, 1929.
2 Ib., p. 62.
3 Ib., p. 27; cf. Giles, p. 10.

<sup>4</sup> Ib., pp. 28 and 29; Giles, p. 11; Rémusat gives "seng kis lan" as the form.

<sup>5</sup> Ib., pp. 30 to 35; Giles, pp. 12 to 15. 6 Ib., pp. 41 and 42.

the kingdom of Sankasya lying along the Jumna to the south of Agra, there were nearly a thousand monks and nuns, and at Kanyakubia there were two Hinavana monasteries 1. At Sravasti Fa Hsien and his friends found a crowd of monks and a number of religious buildings, of which the Jetavana Vihāra was one 2. "The inhabitants were" however "few and far between, amounting in all (only) to a few more than two hundred In Kapilāvastu also "all was mound and desolation " "Of inhabitants there were only some monks and a score or two of families of the common people" 8. A celebrated tope at Ramagrama near which a monastery had been built by "the king of the country" not long before his visit, was also noticed by Fa Hasen 4. In Gaya, at the place where the Buddha "attamed to perfect wisdom" there were "three monasteries all of which were tenanted by monks" 5. Hmayana monks were also found by the pilgrim at Kausambi, and in the district of Bhagalpur there was a number of topes with 'monks residing in them all' ".

The evidence is corroborated by the existence of some

Buddhist inscriptions of the period 7.

Jaina inscriptions show that Jainism also existed, but probably was not a serious rival of the other two. The famous Jaina Council which codified the atgas also met at Valabhi during this period

The fact that the Gupta Emperors and the majority of the princes were Brahmanical Hindus probably indicates that Hinduism was gaining fast on its rival, Buddhism. The numerous grants to Brahmanas and their gods by the state and individuals together with the employment of Classical Sanskrit-the sacred language of Brahmanism-in official inscriptions by the ruling potentates also lead to a similar conclusion.

The Brahmanas are said by Fa Hsien to cut down the tree of the danta-kashtha (tooth-brush) of the Buddha, and quarrel with the sramanas about the shadow cast 8 on their temple by the Buddhist vihāra. They are said to hold "contrary doctrunes ' (i.e., doctrines different from those of the Buddhists) and are called "malbelievers." Sung Yun says that the inhabitants of the country round Shen-chi hill believed that the son of Prince Sudatta and his sister had been beaten by a Brahmana with rods, "till the blood flowed down and moistened the earth".

The currency of a story like that proves that an attempt

 <sup>1</sup> Do., pp. 47, 51, 54.
 2 Th., pp. 54 to 58.
 3 Th., pp. 64
 1 Do., pp. 66 and 100.
 1 So., pp. 66 and 100.
 1 So., pp. 4G, I, No. a 5, (98 G.E.), 11, (189 G.E.), 62, (131 G.E.), 63.
 5 G.B.), 70, 203 G.E.).
 1 Lagge, p. 61.
 2 Bank: Sung Yung, p., soviii; also "Sung Yun" by the Nagri Pra-

charini Sabha, pp. 22, 23, 49-55.

was made by the Buddhists to create a feeling of animosity

against the Brahmanas

Sasaina the lung of (auda or lowes Bengal us said to have extermanated limited man do consequently the groups of Brethren see all broken up. He tracel to efface the foot purits of the Buddha on a stone near Pataliputra and failing to do that he caused it to be thrown into the (canges 4 Not content with this the tenny and oppressor of Buddhusin (as Sastina is called) out down the Bodh tree destroyed its roots down to the water and burned what remained Front hese stories it is quite apparent that a presecution of the Buddhist tool about m Bourgel and Mazadha.

The Huna chief Mihnakula also is said to have been a per scouter of Buddhism to have destroyed all the prosts of the five indies and to have overthrown the Law of Buddha and left nothing remaining 5

The performance of the isvariedla sacrifice by Hiudu emperors undoubtedly wounded the religious feelings of their Buddhist and Isina subjects to whom the I illing of the sacrificial hope must have been extended, requisive

We must however remember that the instances we have cited above are not after ill many and the small number itself as a proof though a negative one of the general previlence of toleration

Mireover a close examination of the information available about Mihirakula one of the two persecuting kings of the period raises some doubts and difficulties. He was certainly a ruler descended from a tribe settled in the steppes of Asia an admixture of the Chinese Houng Vii and Jung Hu . He had been grafted on a portion of Western India and had probably never assimilated the Hindu culture of his days. A study of his carcer mercover convinces one of the extra ordinarily ruthless traits of his character Yuan (hwang tells us that in his attack on (andhara he slew main people in cold blood gave some as slaves to his soldiers and took away the wealth of the country. The Rajataraugust mentions has wanton destruction of a hundred elephants and the massacre of millions of women with their brothers and husbands. It is also significant that the ( bronicle of Kashmii does not mention anything about the persecution of Buddhists Moreover the Buddhist accounts of Yuan Chwang and Hsur Wuh tell us that Mihirakula was a Buddhist and not a Hindu in the earlier

<sup>1</sup> Watters Yun Chwang p 49

<sup>2</sup> Watters p 93 3 Beal S: Yu Ki Hook iv p 168

<sup>4</sup> An unpublished article of Sar E Denison Ross kindly supplied to the author 8 Beal Si Yu Ki pp 166 172.

part of his career. We must also remember that Mr. Pathak's identification of Caturmukha Kalki, who, according to Gunabhadra the author of the Uttarapurana, persecuted the Jaina sect of the Nirgranthas, with Mihirakula, is very doubtful.1

On the other hand, instances and considerations leading to a contrary view are so numerous and weighty, that the historian cannot but conclude that the general attitude of the Hindu state towards the Buddhist and Jaina Churches was one of toleration.

The Buddhist, Fa Hsien, tells us that "the inhabitants" of Magadha vied "with one another in the practice of benevolence and righteousness." and "every year on the eighth day of the second month, they" celebrated "a procession of images" Among these images of Hindu gods, which were carried in a four-wheeled car, there were those of Buddhas seated in the niches "on the four sides" with Bodhisattvas standing in attendance on them " 2.

When Sung Yun-the Buddhist-fell ill near the Shen-chi bill, the Brahmanas seem to have taken care of him, and cured him by their charms 8 The ambassador in the course of his remarks on Poshawar, probably records the existence of a Brahmanical temple frequented by "all religious persons." He adds that a Buddhist vihara called the White Elephant Palace existed not very far from the Hindu temple 4.

Emperor Candragupta Vikramaditya, the son of the great Samudragupta is officially described as being "specially devoted to Vishnu," and a person who conformed strictly to the precepts of his religion because he is not only called a Rajadhiraja but also a rish or a saint b But his orthodoxy did not prevent him from employing non-Brahmanical officers of state The Udayagiri cave Inscription tells us that the Buddhist Amrakaradava, who granted the village of Isvaravasaka and a large sum of money to the Buddhist monks of Sanci, was a person whose "means of subsistence" was "made comfortable by the favour of the feet" of ('andragupta II (('andragupta-padaprasad-apayitaivita-sadhanah). His munificent donation to the vihara shows that he was a person of consequence. The fact that he "acquired banners of victory and fame in many battles" shows that he probably held commands of the imperial armies. Fa Haien tells us that the ruler of Mathura—who must have been one of the governors of Candragupta-supplied "food with his own hands to the monks", and showed great respect to them 7. The very existence of a great number of prosperous

Uttarapurāna, vorse 390, Caturmukhāhvaya) kaiki rējodvejita-ābutsalab; Bhandaricar Commemoration volume, pp. 216 and 217.
 Legge, p. 79; Oiles, p. 47.
 Beal—Sung Yun, p. xeviu.
 Beal—Sung Yun, pages oil and cits.
 F.C. I., No. 6, I. 2.

S Legge, p. 79; Oiles, p. 47. 6 Beal—Sung Yun, pages oil and cit. 6 F.G I., No. 5, 1. 4.

<sup>&</sup>lt;sup>7</sup> Legge, p. 42.

Sanghārāmas all over the country during his reign, also proves that the emperor did not like to interfere with the religious practices of his subjects.

In the Valabhi grants, the phrase, mātā-pitroh puny āpāyanāvātmanascaihikāmushmikayathāabhilashitaphalāvāptinimittam [i.c., for the increase of the spiritual merit of parents, and for the attainment of blessings in this life and the life hereafter to the utmost limit of (the grantee's) desires] occurs, in grants to Brahmanas 1 for performance of the agnihotra, atithi and the three Maha-Yajnas, as well as in those for the upkeep of vihiras, feeding of bhikshus, and supply of perfume meense and oil for lamps placed before images of Buddhas 2.

It is therefore apparent that even a parama-bhagavata Hindu ruler thought that a grant for Buddhist religious purposes would lead to an increase of religious morit in the same way as one for Brahmanical purposes would. In at least one grant to Buddhists, we find that slokas from the Hindu epic, the Mahabhārata, were quoted We also remember that the parama-maheivara (the devout worshipper of Siva) Guhasena I, granted four villages with all appurtenances to the Sakya. Bhikshusangha (or the Community of Buddhist monks) belongmg to several Hinavana schools attached to the monastery of Dudda to provide the necessary expenses for their food, clothing, bedding, and medicine. The object of the grant was tomerease the religious merit of himself and parents.8

One other fact that supports our contention is that grants for religious purposes were freely made by Buddhist and Jaina citizens and publicly recorded on stone. Thus we find that the two Sakva bhikshus who lived in the same village of Tishyamratirtha granted a Buddhist stone statue, found at Bodh Gaya. The fact that the king's name is not mentioned in the inscription leads to the presumption that the religious gift was considered to be valid even without the express sanction of the reigning king . The same remarks apply to the gift of a pillar at Sancı in the Bhopal state by a vihārasvāmin, and of a Buddhist image, discovered in the excavations of Bodh Gaya, by the Sakya bhikshu, the Sthavira Mahanaman s Mahanaman is said to be the resident of AmradyIpa or the Mango-Island which Cunningham identifies with Ceylon, because it resembles a mango in shape. We may also point out that there is an Indian tradition which asserts that mangoes were introduced into India from Ceylon. Dr. Fleet thought it to be probable that this-

<sup>1</sup> e.g. E.i., vol. III, pages 320 to 322.

e.g. in plates of the same prince in J.R.A.S., Vol. XXVII. 8 I.A., IV, p. 175, 1. 5. 4 F.G. I. No. 78. 5 F.G. I. No. 72.

Mahānāman was "the person of that name who composed the more ancient part of the Päli Mahāvamsa" 1.

Such instances can be easily multiplied. In the Gorakhpur district of the United Provinces of Agra and Oudh, Madras set up five stone image of the five Jaina Pithahatars and recorded this presentation in an inscription of twelve lines on a grey sandstone column. The approval of this gift by the Hindu Emperor Skandagupta is apparent from the mention of his manes and occurrence of his sulogy in the body of the inscription Madra, who was apparently a Jaina, reflects the generally tolerant spirit of the age, and his inscription-writer expressly mentions that he was "especially full of affection for Brahmanas, religious preceptors and asociety."

Another notable fact is that classical Sanskrit, the sacred language of Hinduism, was employed to record gifts and presentations of rival religions.

We therefore naturally come to the conclusion that tolera-

we theretione instartant come to the contained make variation of the religion of the subject was the rule, and persecution an exception during this period of Hindu ascendancy.

<sup>&</sup>lt;sup>1</sup> F.G. I., p 275. <sup>2</sup> F.G. I., No. 15.

## On a Type of Sedentary Game prevalent in Shahpur, the Punjab

#### By HEM CHANDRA DAS-GUPTA

The game that is described in this note is a type of tigerplay prevalent in the district of Shahpur in the Punjab. It is known locally as the game of sher-bakr, i.e., tiger-goat. The details of the game were obtained from the sub-assistant surgeon in charge of the charitable dispensary of Pail (Shahpur) in the Salt range, a locality I had an occasion to visit during the Puja vacation of 1929 in connection with some geological The diagram that is used for playing this game is work given below :--



Two persons are necessary for playing this game, one being in charge of one piece, the tiger, and the other in charge of four pieces, the goats. At the commencement of the game the four goat pieces are to be kept at A and the tiger piece at the apex of the triangle, i.e., at the point marked 1. The possessor of the goat pieces has to move one of his pieces first and then the usual rule is followed according to which a goat piece and the tiger piece can be moved only from one crosspoint to another. But there are two rules of this game which are worthy of special notice. In all types of tiger-play which have hitherto been recorded, e.g., from Orissa, Tibet, Sumatra,

Journ. Asiat. Soc. Bengal, N.S., XXII, 212-213, 1926.
 Riu-chen-dha-Mo (Mrs. Louis King): We Tibetans, 141-143, 1926.
 Tidischer, Ind. Taul. Land-em Folkenbunde, Deel LVIII, 8-10. 1919.

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Kolhan. 1 Eastern Bengal. 2 Mianwali. 3 and British Garhwal. 4 the tiger piece may jump over a cross-point occupied by a goat piece provided the cross-point next to it and in the same straight line is vacant and capture the gost piece. According to the rules of the game as prevalent in Shahpur, the tiger piece may capture the goat piece in this way, while it may also, for the purpose of capturing a goat piece, jump round the angle A either from 2 to 4 or from 4 to 2. This is a type of movement which has not been hitherto recorded from anywhere as far as my information goes. It may also be pointed out that there cannot be more than one goat piece on one crosspoint though at the angle A there may be more goat pieces than one. If, however, the tiger piece succeeds in jumping over A and if at that time there are goat pieces more than one only one piece may be captured, recalling in this matter the rules of game prevalent in Mianwali and British Garhwal. Another important peculiarity to be noted in connection with this game is the form of the diagram used for playing it. All the diagrams known hitherto in connection with tiger-play are of a square or rectangular type and a triangular diagram, as depicted above, does not appear to have been recorded from anywhere else. The goats try to checkmate the tiger and this attempt cannot succeed unless all the four goats are in activity; hence if only one goat is captured the owner of the tiger piece is victorious.

<sup>&</sup>lt;sup>1</sup> Man in India, Vol. V, 196-198, 1925.

Quart. Journ. Bangiya Sahitya Parishad. XIV, 240-241, 1314 B.S.
 Journ. Asiat Soc. Bengal, N.S., XXII, 145-146, 1926.

<sup>4</sup> Ibid., N.S., XXIII, 297-298, 1927.

## Synthesis of a few Antimonials of Therapeutic Interest

By U. N. BRAHMACHARI and J. M. DAS GUPTA

The present paper contains an account of some organometallic antimonials, which have been synthesised by us with the same object in view, as in the case of the compounds described in a previous paper contributed by us to this Journal (Vol. XXV, 1929, No. 1). They are amorphous and extremely difficult to purify. The chemical operations involved in their preparation are given below. As regards toxicities, we have noticed that in these as in the previous compounds the general rule holds, viz., introduction of sulphoxyl groups lowers the toxicities to a considerable extent with a decrease in the therapeutic value. The nature of the basic portion also affects. to some extent, the stability and the toxicity of the compounds, viz., urea or diethylamine salt is sometimes more stable and less toxic than the corresponding sodium salt. Our object in the preparation of the following compounds is to study these latter effects as well. The compounds are not very stable, though their solutions do not decompose on standing in air for 24 hours. The following is a list of the compounds investigated by us in this paper :-

- 1. Sodium salt of phenyl-glycine-amide-4-stibinic acid.
- 2. Urea salt of the same.
- Diethyl-amine salt of the same.
   Carbamino-p-stibanilate of sodium.
- Carbamino p-stibanilate of urea.
- 6. Carbamino-p-stihanilate of diethyl-amine.

It will be seen that all the above compounds undergo polymerization (see below).

## EXPERIMENTAL.

(1) Sodium phenyl-glycine-amide-4-stibinate.

$$\begin{array}{c} \text{ONa} \\ \text{NH}_2\text{.CO.CH}_2\text{.NH.C}_0\text{H}_4\text{.Sb} < = 0 \\ \text{O} \\ \text{NH}_2\text{.CO.CH}_2\text{.NH.C}_0\text{H}_4\text{.Sb} < = 0 \\ \text{O} \\ \text{NH}_2\text{.CO.CH}_2\text{.NH.C}_0\text{H}_4\text{.Sb} < = 0 \\ \text{O} \\ \text{O} \end{array}$$

-stibanilic acid is dissolved in the requisite quantity of NaOH solution and the concentrated solution of sodium n-stibanilate is added gradually to an excess of absolute alcohol. when a precipitate of sodium stibanilate is produced, which is next filtered and washed with absolute alcohol and then dried. 5 grms, of sodium stibanilate are then dissolved in methyl alcohol and treated with chloracetic ester and the whole refluxed for several hours. After the reaction is complete, the methyl alcohol is distilled off and the rest acidified with dilute HCl. The precipitate thus obtained is filtered and washed with water and then treated with concentrated ammonia. After some time, the solution is filtered and the filtrate is reprecipitated by acetic acid, when the glycine amide derivative is obtained, which is next washed with distilled water. The precipitate is then dissolved in dil. NaOH, filtered and the filtrate precipitated by adding absolute alcohol. The precipitate is then repeatedly washed with absolute alcohol and dried in a vacuum desiccator.

It is an almost white coloured powder, very easily soluble in water to a perfectly clear solution, which gives neutral reaction to litims paper. On warming with dilute alkali it gives out ammonia. The compound prepared according to the above process has been called  $X_{10}$  a paper on the therapeuties of which has been published by us in the Transactions of the Royal Society of Tropneal Medicine and Hygiene. The method preparation of the compound described here is better than the one originally described by one of us (U. N. B.) in the Ind. J. (J. Mod. Res., 1922.

Composition :--

Dried material corresponds to the formula:

 $(NH_2OO.CH_2 NH.C_nH_4.SbO)_8.O_2(OH)(ON8).$ 

 $\simeq C_{24}H_{28}O_{10}N_6Nb_8Na$ . Found

Sb=38·40%, N=8·72%,

Calculated for C<sub>24</sub>H<sub>18</sub>O<sub>19</sub>N<sub>8</sub>Sb<sub>2</sub>Na. Sb=38·17%, N=8·90%.

This compound is the polymerized antimony analogue of ttyparsamide.

(2) Phenyl-glycine-amide-4-stiblinate of urea. (NH<sub>2</sub>CO.CH<sub>2</sub>.NH.C<sub>6</sub>H<sub>4</sub>.SbO)<sub>3</sub>O<sub>2</sub>(OH)(ONH<sub>2</sub>.CO.NH<sub>2</sub>).

Phenyl-glycine-amitie-4-stibinic acid, as obtained in the previous experiment, is made into a paste with little water, and then well mixed with an excess of urea. The whole is then warmed for some time when the acid gradually dissolves to a reddish solution, yielding a urea sait. The solution is then fittened through a Buchmer funnel, and the clear fiftrate spre-

cipitated by acetone. The precipitate thus obtained is dried in a vacuum desiceator after well washing with absolute alcohol. The product is a light coloured powder easily dissolving in

The product is a light coloured powder easily dissolving in water to a perfectly clear solution, which is neutral to litmus paper.

### Composition :---

Dried material corresponds to the formula; (NH<sub>2</sub>CO.CH<sub>2</sub>.NH.C<sub>6</sub>H<sub>4</sub>.SbO)<sub>2</sub>O<sub>2</sub>(OH)(GNH<sub>2</sub>.CO.NH<sub>2</sub>)

 $=C_{25}H_{89}O_{11}N_8Sb_2$ .

Found Sb=36.58%, N=11.55%.

Calculated for C<sub>m</sub>H<sub>as</sub>O<sub>11</sub>N<sub>8</sub>Sb<sub>8</sub>. Sb=36·69%, N=11·41%.

(3) Phenyl-glycine-amide-4-stibinate of diethyl-amine.

The starting material in the preparation of this compound is the same as in the previous cases. This is well mixed with a small quantity of water, and to the mixture a 30% solution of diethylamine in water is gradually added shaking it very well at the same time. Almost a clear concentrated solution is thus by drop into 5 times its volume of absolute alcohol. A voluminous precipitate is produced, which is allowed to settle down for some time and then filtered. The precipitate is washed well with absolute alcohol, and then dried in a vacuum dessociator.

It is a light grey coloured powder easily dissolving in water to a clear solution, which is neutral to litmus paper.

#### Composition :---

Dried material corresponds to the formula:

(NH<sub>2</sub>.CO.CH<sub>2</sub>.NH.C<sub>6</sub>H<sub>4</sub>.SbO)<sub>5</sub>O<sub>2</sub>(OH).OH<sub>2</sub>N(G<sub>2</sub>H<sub>4</sub>)<sub>2</sub>

=C<sub>28</sub>H<sub>40</sub>O<sub>19</sub>N<sub>7</sub>Sb<sub>8</sub>. Found

8b=36.42%, N=9.71%.

Calculated for  $C_{20}H_{40}O_{10}N_7Sb_0$ .  $Sb=36\cdot21\%$ ,  $N=9\cdot85\%$ .

(4) Sodium carbamino-p-stibanilate.

NH,CO.NH.C.H,.Sb

NH, CO.NH.C.H. Sb<=0

NH,.CO.NH.C,H,.Sb <=0

The starting material in the preparation of this compound is sodium p-stibanilate, produced by neutralising p-stibanilic acid with NaOH solution, the acid itself being obtained by hydrolysing acetyl-p-stibanilic acid which is a product of Bart's reaction applied to acetyl-p-phenylene diamine. 5 grms. of sodium stibanilate thus obtained are dissolved, at low temperature, in glacial acetic scid. To this well-cooled mixture is gradually added about 4 grms. of potassium cyanate and the mixture well stirred till a clear solution is obtained. The solution is then allowed to remain in this state for many hours. The mixture is then diluted with water and well stirred. Concentrated HCl is then gradually added which dissolves the unreacted p-stibanilic acid and precipitates the carbamino derivative as a voluminous mass, which is then filtered and washed with water. The wet precipitate is then dissolved in the requisite quantity of dilute NaOH solution and the reddish solution thus obtained is filtered. The filtrate is precipitated by absolute alcohol and the precipitate washed with the same and then dried in a vacuum desiccator.

The product is almost a white powder readily dissolving in water to a clear solution which is neutral to litmus paper.

Composition :-

Dried material corresponds to the formula:

(NH<sub>2</sub>CO.NH.C<sub>6</sub>H<sub>4</sub>.SbO)<sub>8</sub>O<sub>9</sub>.OH.ON8.

 $=C_{91}H_{99}O_{10}N_0Sb_9Na.$ 

Found

Sb=39.62%, N=9.29%, Calculated for  $C_{21}H_{22}O_{10}N_aSh_aNa$ . Sh=39.95%, N=9.32%.

(5) Carbamino-p-stibanilate of urea.

(NH<sub>2</sub>.CO.NH.C<sub>8</sub>H<sub>4</sub>.SbO)<sub>8</sub>.O<sub>8</sub>.OH.ONH<sub>2</sub>.CO.NH<sub>3</sub>.

Carbamino-p-stibanilic acid as obtained in the previous case, is made into a paste with little water and then well mixed with a slight excess of urea. The mixture is then warmed on a water-bath when the acid gradually dissolves to a clear solution. The solution is next filtered and the filtrate precipitated by acetone.

It is a light grey coloured powder which dissolves easily in water giving a neutral solution.

Composition :-

Dried material corresponds to the formula :

(NH2.CO.NH.CaH4.SbO)a.O2.OH.ONH2.CO.NH2.

= Co.H.,O,, N.Sb.

Found Sb=38.50%, N=11.85%. Calculated for Co. Horo., NoSba. Sb = 38:34 %, N = 11:92 %.

- (6) Carbamino-p-stibanilate of diethyl-amine.
- (NH.CO.NH.C.H.SbO), O.OH.ONH, (C.H.).

As in the previous experiment a paste is made by mixing carbamino-p-stibanilic acid with little water to which is then gradually added a 35% solution of diethyl-amine in water. The precipitate gradually dissolves, giving a clear solution which is filtered, and the filtrate reprecipitated by acetone.

It is a pale grevish powder which dissolves readily in water.

#### Composition :-

Dried material corresponds to the formula :

(NH., CO.NH, C.H., SbO), O., OH, ONH., (C.H.).

 $= C_{25}H_{24}O_{10}N_7Sb_8$ .

Found

Sb=37.62%, N=10.31%, Calculated for C25H24O10N7Sb2. Sb=37.81%, N=10.29%.

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